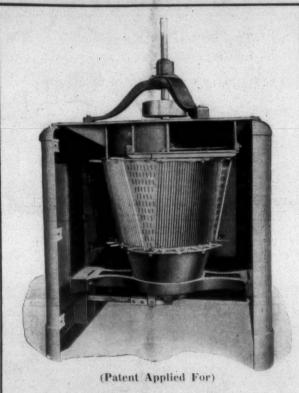
SOUTHERN EXTILE BULLETI

VOL. XXIV.

CHARLOTTE, N. C., THURSDAY, OCTOBER 26, 1922.

NUMBER 9



SACO - LOWELL

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Positive, Fool Proof adjustment of the opening between the bars. With these bars you can adjust according to the grade of your cotton. The new bars are capable of as small an opening adjustment as the perforated screen and also one several times larger.

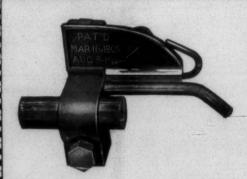
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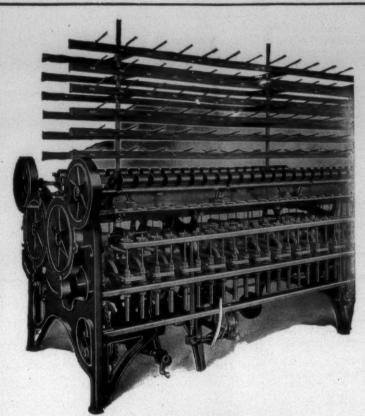
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Yarn Conditioned to any Per Cent of Moisture at Practically no Cost

The JOHNSON Yarn Conditioner

This simple machine attaches directly to the winder and puts into a cone or spool of yarn any per cent. of moisture desired, uniformly distributed. No further conditioning necessary.

Here is what the head of one mill says:

"We have three Foster Winders of 100 spindles each equipped with your conditioning machines for the past four months and we have thoroughly tested same as to conditioning of yarn as it is wound on the cones and we must say that the results have been highly satisfactory. We find that this machine will put in moisture up to 10%.

"The numbers of yarn that we have tested are 24/1, 26/1 and 30/1 soft hosiery yarn.

"We will not hesitate to recommend your machines to anyone for conditioning yarn."

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SOUTHERN EXTILE BULLET

PUBLISHED EVERY THURSDAY BY CLARK PUBLISHING COMPANY, 39-41 S. CHURCH STREET, CHARLOTTE, N. C., SUBSCRIPTION \$2.00 PER YEAR IN ADVANCE. ENTERED AS SECOND CLASS MAIL MATTER MAPCH 2, 1911, AT POSTOFFICE, CHARLOTTE, N. C., UNDER ACT OF CONGRESS, MAR. 3, 1879

CHARLOTTE, N. C., THURSDAY, OCTOBER 26, 1922.

NUMBER 9

Opening and Lapping--- and Better Goods

The subject assigned to me by the system in your Opening Room, go Program Committee, "The Relation stand in front of your warpers and of the Opening Room and Lappers to see how many different colors of Better Goods," is a subject that up to a few years ago has been sadly to a few years ago has been sadly neglected by most of us. The relamixture is to clean the cotton and tion of the Opening Room and Lap-pers to the finished goods is most

comes to the Cards even and the aprons, and ever motions, etc. stock well mixed and clean the Card One thing that we all are inter-can function as a card should and ested in is to get the cotton the not play the dual role of both the cleanest possible with the least Picker and Card.

We have discussed at length in the more picker these meetings before the subject of and the more lic ageing cotton. It is the consensus ton the cleaner of opinion that for cotton to be propalsed know that i crly aged it should be run through injure the fibre. some good opening machine that has air suction and the cotton thus left in a fluffy condition for several days. There is no doubt that cotton thus for the mills on the finer counts that this method of conditioning is possible. The mills on the coarser counts are handicapped for the lack of room. Therefore, for the most of us it is necessary to lay aside the more bales we can lay down at the same time the better the mix, and that most mills can put down a days run at a time. When the cleaning of the cotton as in the this is done and each bale gradu-opening.

ally used the mix won't be far Three months ago at our No. 3 wrong. But it is just as important mill, which is on Print Cloths, we to see that your Outside man gives installed three Vertical Openers in the Opening Recent the came grades tandem, and the results have been the Opening Room the same grades

of cotton day after day.
Our system on this is as follows: The Picker Room foreman has a 1. Cotton better opened. schedule showing him just how 2. Can use a slightly lower grade many bales of the different grades of cotton and obtain the same qualhe is to use in his mixture. At the ity of work. end of the day he makes out a list showing first how many bales of the showing first how many bales of the d. Cards doing better work for different grades he has on hand and they have less work to do.

second, how many bales of the dif- 5. Card Room Sweeps reduced 11 ferent grades he needs for the next per cent.
day, and gives this list to the Outside man. This enables the Outduced 31 per cent.
Side man to keep the Opening Room 7. Spinning Room Scavenger

(L. L. Brown, before Southern Tex- properly stocked, and not all good waste reduced 10 per cent. tile Association.) cotton one day and bad the next. brought up from 56 to 58. If you run several different grades r. Chairman, Members of the of cotton, say from good middling We have Southern Textile Association, down to low middling, and all kinds advantage:

Ladies and Gentlemen: of tinges too, and haven't a good Have ha

put it in lap form with as little damage to the fiber as possible. This in a great many mills is being done I consider the Picker Room the by the aid of Vertical Openers, foundation of the mill for it is there slower beater speeds, fewer prothat our work begins. If the lap cesses and ball-bearing equipped

> and the more licks we give the cot-ton the cleaner it will be, but we also know that in so doing that we

The Vertical Opener is today, think, the greatest aid we have in opening of cotton and also it is very efficient in cleaning the cotton with conditioned will regain its natural practically no damage to the fibres twist and moisture and is much Single Vertical Openers have been easier cleaned and spun. But it is in use for several years, but only recently have they been installed in tandem, that is, two or three in a cent. We have extracted of low line and the cotton passing through middling that was very trashy a the complete set. It is surprising total of 4.25 per cent waste.

how much dirt, leaf and short fibres Below I give the results from anthese machines will take out. The other mill data was taken over a Vertical Opener when first built period of a week's run, with strict idea of ageing and try to get the Vertical Opener when first built cotton from the bale to the finished with the stationary perforated lap in the quickest possible time. screen was designed primarily for Common sense tells us that the the opening of the cotton, the cleaning was secondary, but today the total 2.22 per cent.

United States for Vertical Opener with an adjustable I have with me several samples 40,00,000 and the grid bar plays as great a part in showing the cotton before and after will be too low. the cleaning of the cotton as in the passing through the Vertical Open-

> tandem, and the results have been very gratifying. We have found the following advantages:

8. Breaking weight on 200 We have found the following dis-

open we took out in August 1.67 per cent waste and in September with the same setting 1.77 per cent waste. We are now running with the grids damage to the fibre. We know that entirely open, but haven't the data and Picking, but I will be glad to the more picker processes we use at the present time for an entire answer any questions or give any and the more licks we give the cot-month. However, I will give below information that I have. some tests of individual bales with the grids wide open.

Grids one-half open strict middling cotton shows the following waste extracted: 1st V. O. 1.03 per cent; 2nd V. O. 0.44 per cent; 3rd V. O. 0.32 per cent, total 1.79 per cent. Grids fully open strict middling cotton shows the following: 1st V. O 1.47 per cent; 2nd V. O. 0.79 per cent;

first built period of a week's run, with strict perforated middling cotton 1 1-16" staple; imarily for 1st V. O. 0.89 per cent; 2nd V. O., the clean-0.74 per cent; 3rd V. O. 0.59 per cent,

pening. er, also samples showing the char-Three months ago at our No. 3 acter of waste from each Vertical

You will note that the sample from the second and third machine looks almost as trashy as that from the first, but by weight it is a good Cotton better opened. deal less, this being due to the fact Can use a slightly lower grade that the sand comes out in the first

of work.

Less dust in Card Room.

Cards doing better work for have less work to do.

Card Room Sweeps reduced 11

Spinning Room Sweeps restricted.

Spinning Room Scavenger roll

Twould like to quote part of a always been conservative, and for that reason the new figures given out by the company are looked upon as being authoritative.

Miller's estimate early in the year was of picking, we found it necessary to placed at between 26,000,000 and 28.

Spinning Room Scavenger roll take out twist on slubbers, inter-

mediates, speeders and spinning frames. As you know, in hosiery yarns a soft yarn without kinks is desired, and only sufficient breaking strength is required to keep from dod Have had to change men in the breaking down in winding or knit-go Opener Room three times in two ting. Before we changed the twist and months. These men weren't fired our yarn broke on an average of 10 but quit, reason for quitting—too pe reent higher than before. When much "durn dust" cleaning out we completed the above changes we Vertical Openers, but we have now had twelve different mixes of cotton secured a gas mask and have obsecured a gas mask and have obsecured that trouble.

With our three Vertical Openers on all processes and on all mixes of these is hardly any change that in fandem we have been very par- so there is hardly any chance that ticular and thorough in our tests anything other than the change and have found the following: made in the picking could have With the adjustable grid one-half caused the increased strength."

The lack of time, as we are only allowed ten minutes, prevents me from going further into details of important subject of Opening

I believe that it is through these discussions, born of the Southern Textile Association, that we have made such rapid strides in all branches of our industry.

Increased Auto Tire Consumption Akron, Ohio.—The Miller Rubber Company, among the most conservative companies in the Akron dis-3rd V. O. 0.40 per cent, total 2.66 per trict, estimates that the tire sales cent. We have extracted of low for automobiles and trucks this year middling that was very trashy a wil be in the neighborhood of at 36,000,000, as compared with previous estimates, which have been generally accepted, of 33,000.000.

If this estimate proves to be correct, it is not unlikely that the unofficial estimates for the coming year at which consumption in the United States for 1923 was given at 40,00,000 and the world at 50,000,000,

On the basis of new cars placed into operation during the present year, it was estimated that at least 7,000,000 more tires would be quired in 1923 than in 1922, and this would place the new estimate at between 43,000,000 and 45,000,000

Figures heretofore given out by the Miller Rubber company in the way of estimates or predictions have

Relation of Cloth Room to Better Goods

because it has to be called upon in time of trouble or sickness, when a man becomes billious from wrong living by over eating he will call on some Doctor to prescribe a remedy, and if he is a good Doctor he will advise a dose of Castor Oil, just so with the mill when it becomes billious from production and good times, when the market will for a time absorb any cloth that it makes, and allows its vitality to run down, and when the cloth room presents the monthly report with an unusual amount of bad cloth and prescribed a dose of "Quality" as a remedy, the mill has the same feling towards the cloth room as a man has to the doctor when he is told to take a teacup full of castor oil.

The cloth room is not an evil as often considered by the other departments, but it is a safety valve, that must pop off at times and tell the mill they have reached the danger point in their efforts to make a record in pounds, the average worker in the mill is more concerned with the amount that he or she makes than with the quality, therefore, the cloth room is for the pur-pose of showing to the mill that quantity and quality are not equal.

I feel like sometime asking the question "Why the Cloth Room," it is not listed in the cost sheet under labor cost, and I suppose for that reason it is forgotten when the wage scale is being made and is adjusted, the cloth room is then given what is left of the amount allowed for labor cost in the mill. I think the man or woman who in the days work handles thousands of dollars worth of cloth, inspects and grades and puts in a condition for the buyer, is worth as much to the mill one who weaves a few hundred yards of cloth a day, if the inspectors and graders are put on a basis of the quill cleaners and waste haulers, they will naturally have the same interest in their work

trouble for the cloth room when it sults reaches the buyer.

get into the hands of the buyer after does another. being shipped, you do not hear it What knowledge has the average for some time, and when the coth worker of the finishing or bleaching

will ask why wait until then to call for quality, for this reason, the people in the cloth room are human as well as those in the other departments, and are going to have a standard of work in their depart-ment just so good as the other departments, in this respect, the best that is produced will be classed as first, and the mill will make the cloth just as bad as the cloth room will allow, so the purpose of the cloth room should be to create a standard that will meet the demands of the buyer, and insist upon the making a cloth that will satisfy the buyer and bring to the mill repeat orders. Repeat orders are what make profits for the mill, especially if the mill is making specialties, standard goods of course can often be disposed of to other

So you will see that it is a moral question that enters into the making of a piece of cloth, the acts and character of the workers in any preceding department has its influence on the one following, so the overseer in any department who does not show by his life, good character and good morals, can not hope to instill into the workers the idea that better living makes for better goods

I believe the time is fast coming when the character of a man will be given as much consideration as his ability, an immoral man or woman may for a time get by with a good production and quality in their work, but they are just like a machine that is not properly cared for, they are both going to break down soon, and it costs money to replace men and machines, a man of bad morals has nothing to offer as a panacea for the bad morals of others, a poor section man can not keep machine in good condition, therefore, I believe the executives of our mill will look more and more to the moral side of the work, and immoral men or women cannot give a good Each department in the mill has days work, you may point to some the one following to correct its imone that will disprove this statement perfections, until the cloth room is for a time, but just analyze your pay reached, it has the final look at the roll and find the best workers and cloth, and as the water that has has character and good morals is passed through the water wheel is the one who gives you the best re-lost forever, an imperfection that find how they live out of the mill. escapes the vision of the inspector and I think you will soon be con-or grader is gone, and will result in vinced that the man or woman who

The cloth room overseer must be The cloth room acts as a buffer a man that will instill into the work-between the mill and the buyer, if ers in the room the fact that the for some reason the work in the work they do must be above suspicloth room is indifferent and allows cion, doing justice to the mill and to imperfections to pass on to the buy- the buyer, it is often a hard task. er, thereby showing in the monthly for you are often confronted with report a small percentage of sec-demands of the buyer that are unonds, the mill is satisfied that every just, as well as from the mill. The part of the mill is running smooth- cloth room is often damned if it ly, as it takes time for the cloth to does one thing and damned if it

is inspected by the finisher, and he processes necessary to put the cloth

(H. W. Mosely, before Southern finds it below standard, a barrage they make in a proper condition for the several departments, the questratile Association.)

Textile Association.)

is started at once from the front in the consumer. I would like to know tion of pounds will adjust itself to the form of letters by the yard to how many overseers, second hands the satisfaction of the executive, and section men have ever seen in and the cloth room would then be Castor Oil is to a man, it is conopens up, and the cloth room runs side a bleachery. Until the finisher a pleasant place to dwell in. Sidered an evil thing just tolerated up its flag calling for "Quality." You and manufacturer can meet on a No two minds will be of the opin-because it has to be called upon in will ask why wait until then to call common ground and arrive as a jon as to the quality of a piece of side a bleachery. Until the finisher and manufacturer can meet on a common ground and arrive as a fixed standard, the cloth room is in that unhappy position of having to meet the demands of the finisher if there is any business done. Without buyers the mill cannot run.

> The cloth room man must have a knowledge of where the defects that appear in the cloth come from, so that he can place the responsibility at the right place, as the average overseer is a sensitive heing, and none of us care to be blamed with things we are not responsible for.

> The cloth room sometimes will possibly thing too much of the consumer, but I think by so doing he is acting as a safety valve, thereby helping to create with the selling end a demand for the goods made by the mill, and the selling house must know that the cloth room is not trying to camouflage the cloth, but when a piece of cloth goes out of the mill, it is just as represented in the invoice. in the invoice, the selling house knows full well that if the cloth does not come up to specifications he will have a hard task getting a repeat order. I think if the demand quality would start at the opening room and continue on through

ion as to the quality of a piece of cloth, if one is a seller and one the buyer. If you do not thing so, just try to sell some article and see the

So if the cloth room as well as the other departments will give more thought to character of the workers and also see that they themselves show their character in their work and life in and out of the mill, the problem of "Better Goods" will be very largely solved, and when the cloth room offers its remedy for the troubles in the mill, it will be accepted in the same way we accept the remedy offered by the Doctor, even if it is castor oil. Quality and Castor oil will cure a multitude of ills, if taken as prescribed.

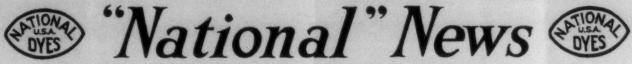
Let's have in mind character for ourselves and without having to tell workers your influence will ex-

tend to them

WELL DRILLING AND DEEP WELL
PUMPS
We do the engineering, and have
had 32 years experience solving water
problems satisfactorily for textile

Sydnor Pump & Well Co., Inc. Richmond, Va.





OF INTEREST TO DYERS AND THE COLOR USING INDUSTRIES IN GENERAL

Prepared by the

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Born to The Purple

THIS expression—a very ancient one—typifies the differ ence between ancient and modern methods of producing color. The royal Tyrian purple was secured from the crushed glands of the shell-fish, Murex trunculus, found on the coast of the Mediterranean. Twelve thousand were required to produce 1.4 grams of this coloring matter, thus making it so costly that only royalty could afford its use. Modern organic chemical engineering, with its autoclaves and sulphonators, is producing dyes so cheaply that color has become one of the indispensable needs of the daily life of mankind, at a per capita cost of less than one dollar per annum.

The National Aniline & Chemical Company, Inc., is sparing no effort to manufacture a superior line of dyes for the use of textile manufacturers in the dyeing of all classes of fabrics.

Moreover, it maintains an experienced staff of chemists and engineers devoted to the development and improvement of the art of dye-making in this country.

Its thoroughly competent force of colorists stands ready to serve textile mills in the correct application of dyes to fabrics—a service obviously in the interest of the ultimate consumer.

Nor are "National" products restricted to textile consumption. There are many other coal-tar derivatives manufactured for varying uses, such as Dyes which are applied in the Paper and Leather fields; Garment Dyes; Food Colors; Pharmaceuticals; and Intermediates.

Branch offices throughout the United States and Canada are so situated as to render prompt service to consumers of "National" coal-tar products.

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"National" offers three Sulfindone Blues for all classes of cotton Dyeing

Realizing that dyers are showing greatly increased interest in the newer and less expensive methods of dyeing such as raw stock, cop and beam dyeing, etc., the National Aniline & Chemical Company, Inc., has made a special study of the requirements of these processes.

It has produced a series of sulfur colors having excellent solubility and level-dyeing properties which are especially suitable for these methods of coloring. The Company calls the especial attention of cotton manufacturers to its three sulfindone blues—

National Sulfindone Blue B Conc. National Sulfindone Brilliant Blue G Conc. National Sulfindone Indigo Blue B G Conc.

with full confidence that these will be found of excellent service in all classes of work whether in the various methods of yarn dyeing, on piece goods or on raw stock.

National Aniline & Chemical Company, Inc.

MAIN OFFICE 40 Rector Street, New York City



Invention and the Cotton Industry

E. Kent Swift, Treast Whitin Machine Works.) Treasurer

fibres, flax, wool and cotton, into cloth is, of course, one of the oldest arts we have record of. Man was bern naked into the world, and his first efforts were to secure food and clothing, but it is a noteworthy fact that up to the attempt to manufacture cotton by machinery by John Wyatt of Litchfield, England, in 1738, yarn from the various fibres was produced by the crudest of methods.

You are all familiar with the ilfrom the carding being spun into a thread by the old fashioned spinning wheel, the ratio of spindles to or erative being 50-50. These hand methods of crudely spinning and weaving seem to have come down the centuries with but little change. the replacement of methods by machinery is comparatively modern, the transition to modern methods through invention coming in the last one hundred and fifty years.

The first mill wherein machinery was installed was built at Birmingham in 1741 or 1742, power being transmitted by two asses walking around an axis, ten girls being em-ployed in attending the work. This establishment was unsuccessful, and cotton, carried the machinery was sold in 1743 cylinder, was act Man's mind was on the problem, ary wooden flats however, and passing by the more or less unsuccessful attempts to develop machinery operated by power we come to the invention of the fly shuttle on a loom by Arkwright on spinning in 1769, the jenny of Hargreaves in 1770, and the mule of today, but without the use of stop pioneered and pointed out the way.

Samuel Crompton in 1776. These motions and coilers

In taking up more specifically the inventions brought about the suc-Arkwright, erected in 1771.

scope of this paper in going back beyond one hundred years, but to trace the development of machinery and the influence which invention as had upon the progress of an industry it is proper to bring out the intimate relation between invention and the growth of the industry.

Arkwright's inventions prepared of the way, but if it had not been for the invention of steam engine by Watt in the same year—1769—the use and value of his inventions would have been very much restricted, owing to the intermittent character of water power and the ited amount available in England, and further, it was necessary that invention of the cotton gin by Eli Whitney in 1794 should occur in order that an adequate supply of

successful mill in the United tive of the period:

successful mill in the United tive of the period:

successful mill in the United tive of the period:

successful mill in the United tive of the period: States built by Almy, Brown and 2—Conical V Slater early in the year 1793, with 350 revolutions.

machines designed and constructed by Samuel Slater based on the Ark- 600 revolutions. wright patents, so-called. This mill, 5—Beater Lap
The manipulation of the various it is interesting to note, consisted 600 revolutions,
bres, flax, wool and cotton, into of preparation and 72 spindles. Cot168—Cards, co manufacturing in this country I think can rightfully date from the Slater mill, although previous to this there had been several more or less unsuccessful ventures in other places.

It is interesting to see just what machinery was used in the cotton mill of this period. The cotton previous to the invention of Whitney was picked over by hand and the extracted, the production per lustrations of wool or cotton being hand being anywhere from one to carded by hand, the tuft resulting four pounds per day. This cotton was also frequently let out to families for further cleaning and picking over. The production of the gin today is based on thousands of

> This cleaned cotton returned to the mill was spread on the back of the card by taking up a handful, pulling it apart with both hands. shifting it to the right hand to get the staple straight, and then apply-ing it to the surface of the breaker card, moving the hand horizontally across the card to and fro. card consisted of a wooden cylinder about 24 to 30 inches in d'ameter and about 30 inches wide, the surface of the cylinder being covered with strips of card clothing. The cotton, carried forward on the cylinder, was acted upon by stationary wooden flats, and delivered to a small doffer, thence to the calendar rolls into a stationary can and from there to the draw frame with three lines of rolls and drawn down into a finer silver and delivered into can, practically the same as it is

Thence it was taken to the back cessful use of power machinery in of a speeder, somewhat similar to a the spinning of cotton, probably the slubber of today, but without the first successful mill being that of benefit of the compound motion, and drawn down still finer by running Perhaps I am going outside the through a fly frame. From the fly cope of this paper in going back frame the roving was set in a creel and drawn through a line of three rolls and thence over a guide rod and wound on bobbins by flyers.

The usual Arkwright frame was built in heads of from four to not over eight spindles each. Later on they were made with heads of twelve spindles, but at first eight were the most any frame had Filling and warp were made on the same frame, but the filling yarn was rewound afterwards on rewound afterwards on a special bobbin, so that it would fit into the shuttle.

The machinery roughly described above was made largely of wood, with very little metal work.

Coming from Slater's mill of 1793 nearer to the subject of this paper it is quite difficult to find an acmaterial be available for the ex- curate description of a mill of ex-ploitation of Arkwright's machinery actly one hundred years ago. The actly one hundred years ago. The However, not to go too far, afield, following machinery, however, war as one easily could in this interest- in an English mill built in 1830 ing line of thought, we come to the and may be considered representa-

evolutions

24—Drawing Frames. 24—40-spool Fly Frames.

50-64-spindle Fly Frames. 78-Throstle Frames.

56-Hand Mules, 144 spindles. 1,100-Power Looms running at

120 picks. -Winding Machines, 240 spin-

32-Dressing Machines.

The above would indicate an organization of machinery very similar to what is in use today.

England and United States Lead.

while the productive methods of manufacture and the machinery used seem in no wise related to these earlier mills, yet we are using the same general principles which they introduced, and in the last one hundred years no fundamentally new or radical changes in principle have come to the cotton industry. only possible exception beinthe Heilmann Comber in 1845, whereby an entirely new method of treating and cleaning the cotton was invented

Inventions have come, inventions whose value has been incalculable to the progress of the industry, inventions which have been made possible through the progress of science, which was unknown in the earlier period, yet before passing on to the modern development of machinery we may well pause to pay our respects to those who have

In taking up more specifically the inventions which stand out in the last one hundred years we find a story of two developments going along hand in hand; that of invenion in England and that of invenion in America, with the contribution of Heilmann's comber from France. In the main, however, the English-speaking counwo great tries have brought about the present par excellence of textile machinery.

Few Successful Inventions.

Conditions have changed very much from the time when in 1733, Kay, the inventor of the fly shuttle. was mobbed by the people to prevent his invention from being adopted for fear it might, thorugh its efficiency. throw others out of work, but even today the role of the texinventor is hard, as there is probably no more conservative man

chine shops serve all the industry sea. in the development of ideas of merit. First Mills Built Their Machinery. There is perhaps no other field of human endeavor in which there has in the United States. In 1815, at human endeavor in which there has in the officed states. In 1813, at the been a wider range or morei nten- end of the war, there were 130,000 sive development of human ingen- spindles. It is also interesting to uity than is exhibited in the textile note by the way, the size of the sections of the English and Amerimills, as after the war in 1912 there can atent Offices. It is the function (Continued on Page 12.)

5-Breaker Pickers, running at 1,- of your machine shops to test and 00 revolutions, measure the value of new inven-5—Beater Lappers, running at 1,- tions. Thro the inventor, if his idea 00 revolutions. is promising, we give the experience 168—Cards, cylinders running 114 and ability of a trained staff of skilled mechanics, developing from the crude idea a marketable prod-uct. If the idea is not practicable it is soon found out and abandoned

Many of you would be surprised at the number of so-called inventions which go through any one of the large machine shops during the course of a year, and probably are likewise surprised at the few new things which are suggested for your use. It has been stated that only per cent of all the patents which are issued amount to anything After some experience in the patent In considering the development of field I have come to the conclusion machinery in the last one hundred that a great many so-called inven-years it is well to bear in mind that tions are dreams of what the invenfor would like to accomplish rather than being practical for use.

The Influence of Labor Costs.

The English and American inventors have proceeded along somewhat different lines: England. most conservative, with a market where labor is cheap and material high, looking for all the small economies in manufacture, such as the blend-ing of different cottons in order to obtain a maximum of quality with the greatest economy of material; America, on the other hand, running a rule on coarser counts than England, paving more heed to production, owing to its labor maket being on a very much higher basis of cost, the developments of each country, however, over a period of years being happily combined to produce the perfect machine equip-

The first impetus which American inventors received was probably during colonial times during the Stamp Act period prior to the Revolutionary War, when the home country, England, proposed that the olutionary colonies should be merely agricul-tural communities, feeders to Great Britain, and England would be the provider of manufactures for the colonies. The patriotic movement of the colonies was continued up to the Revolutionary War, and after the war it was promoted in every way by our government policy of protection.

Perhaps the greatest stimlus came with the Embargo Act of 1807 and the Non-Intercourse Act and the War of 1812, when the supply of cotton goods from Great Britain was almost entirely cut off and the Americans weret brown on their own resources. The high prices of cotton cloth attracted investors to this form of industrial enterprise, in the world than the textile manu- and at the same time the restric-tions on foreign trade encouraged It is here that the present day ma- the withdrawal of capital from the

In 1807 there were 8,000 spindles

Report on Weavers Sectional Meeting the October meeting of the South- in width. The classical wille.

(By W. H. Gibson, Jr.)

This was by far the largest in at cuts, that is to measure any given tendance of any previous meeting number of yards per cut. of the Weavers.

After the usual preliminaries the meeting settled down to business and discussion of the various matters before the meeting.

What temperature is the best for boiling sizing and how long would it be boiled?

Opinions on this question were considerably divided, however, it seemed to be the consensus of opinion that the heat in the size kettle should be kept at around 220 to 225 degrees and cooked for one hour, or more, as starch in the sizing kettle wil remain at a very high degree of temperature for a number of hours after the steam has bene cut off.

The next question asked was, at what temperature should size be kept in the size vat at the slashers?

We believed for a long time that a great many people were at a loss as to just what degree heat they really had in the size vat and many were surprised when their temperature was taken in their size vats and found to be considerably below the

tion of the steam—whether dry steam or wet steam, how far the slasher is located from the boiler. and the condition of the steam lines to the slasher. If the lines are not well covered you will have a con-siderable amount of condensation and will not get the same heat as if your pipes were well covered. How-ever, it seemed to be a very practical situation, and generally agreed that with 30's yarn and a warp having from 2,000 to 3,000 ends can easily be dried with from 3 to 10 pounds of steam.

The question was asked to explain the difference in 20 fluidity and 30 fluidity starch.

No satisfactory explanation was offered to this question.

The question was asked as to what is the proper weight of the squeeze rolls.

It was found from the discussion that only a few men really knew the weight of their squeeze rolls and there were various opinions as to the proper weight of the squeeze roll, depending, of course upon the class of goods and the number of ends being used at the time. After considerable discussion it was generally agreed that the average weight of the rolls on ordinary work should be around 500 pounds. Howof weather, etc.

There were quite a few questions before the meeting; particularly in ever, this would not be the case on fine work or on very coarse

The question was asked if it is

practical to make all even running

The average mill seemed to have been making from 60 to 65 yards per cut. The question in mind was, if it was practical to make all cuts run the same number of yards, say differs. 62 yards per cut without any variation. impractical proposition, but a phy sically impossible one, as cuts will vary from one loom to another Even though it were practical to make each cut the same length at the slasher, it would not weave out the same length per cut from the cut mark, to cut mark, this variation being due to humidity, change the afternoon, that brought forth some very heated discussions and more interest was displayed than at

any other stage of the meeting.

Questions were asked concerning variation in the width of cloth, the count in the warp, the picks per inch, the standard method of figuring to determine the number of ends that would constitute any

who had made tests that cloth would investigate the matter justments or changes had been

even running piece of goods in Tetxile Association. width or count without any varia-

weather and atmospheric conditions tions, and, of course. the same situa-

end in less than one half day, with you can. a sudden change in the weatherinstances even more.

The chairman of the Weavers Sectional Meeting met with the com-It was expressed by some at least mittee which had been appointed to vary on the loom even though no ad- ends, and, as that committee has gotten up a report to make to the meetmade, this variation being brought ing, will not go into details concernabout by atmospheric conditions or ing this report. However, we sinby the turning on or off of humicerely trust that the recommendations of this committee will be con-There were none who seemed to sidered seriously and passed by the tion. The meeting went on record think that it was practical to make general meeting of the Southern as stating that this was not only an an even running piece of goods in Tetylic Association.

From the best information that we on. have been ablet o obtain, we find If yarn or cloth is affected to such that at least half of the mills, esa great extent by the conditions of pecially on print cloth numbers, do not add anything for extra screage then it beyond the ability of the ends and they are making just this average man to control these varia- much extra advantage over the mills who are adding extra selvage ends tion applies to weight of the goods This is due to the fact that no here as to the width. The average mill might be run- feels right to take the responsibility ning along with their weights run- of setting a standard and it is a ning within five points of standard matter of free for all and get what

We feel that if these standards weights have been known to change were passed on by the Association as much as 10 points and in some that we would at least have the given piece of cloth.

The most varied opinions probthat the width of goods have change ity as can be had anywhere. The

vage ends being added to the backing or the recommendation of offered but none seemed to prove than one hours time without any action was taken at the Anderson adjustment to the loom whatsover, meeting, as he understands that many of the sales agents in the when the width and weight varies north were anxiously watching the was appointed by the chairman to to the extent stated above, that this weavers' meeting in order that they work on the cylinders?

This is a question that deserves a great deal of consideration, depending upon the speed of the slasher the number of the yarn, the number of ends in the warp, the condition of the steam—whether dry steam or wet steam, how a support than one hours time without any action was taken at the Anderson adjustment to the loom whatsover, meeting, as he understands that it is understood at the rame time many of the sales agents in the when the width and weight varies north were anxiously watching the was appointed by the chairman to to the extent stated above, that this weavers' meeting in order that they try to determine the proper method is bound to change the picks per might pass on some standards and inch in proportion to the variation have a guide by which to go.

This is a question that deserves a great deal of consideration, depending upon the speed of the slasher.

We can repair it—right

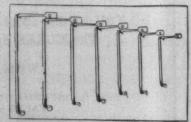
We KNOW Spinning Frames

We have expert mechanics at your service who know how to repair spinning frames. 85% of the cotton mill repair work in the South is entrusted to us.

Located in the heart of the cotton industry enables us to give you prompt service.

Because

And



Our Flyer Pressers, manufactured from Norway Iron, are made in all sizes, perfectly fitted before leaving our factory.

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MANUFACTURERS, OVERHAULERS AND REPAIRERS OF COTTON MILL MACHINERY Charlotte, U. C.

W. H. MONTY, Pres. and Treas.

W. H. HUTCHINS, V.-Pres, and Sec.

Response to Address of Welcome

(By J. S. Stroud.)

come, I am honored to express the you appreciation of the Members of the the lege to meet in your good city and when we come to Greenville, the Textile center of the South, we always feel as though we were going back to the old Homestead. The greatest part of our members, I presume, have gone into the Textile Inudstry and have left our original homes, but we love to, and do often return to the old homestead and we go to refresh our lives and to regain a firm grip upon the fundamental principles of our early childhood. So it is, we feel, in coming to Greenville, that we here come in contact with the most successful and progressive principles of the Textile

throughout the country that your mills here were not even compelled curtail production. Besides this, while labor unrest was rife in all other sections, that you never had the semblance of trouble. These things speak well for Greenville, and shows a superior knowledge on the part of the management of the industry in your city. The members of the Association are men who are always alert and searching for a greater knowledge of the many good things that we may yet apply to our individual cases, and we know of no other place where we could meet whose influence would have a greater bearing for good than coming among you good people.

We, the members of this Associa-

tion, are a body of men representing the operating end of the greatest industrial wealth of the South, and you will find that every individual present has come here with a purpose in view. I remember when this Association was in its infancy, and when these meetings meant not much more than a social gathering and being bored with a few uninteresting addresses. Today the Association is doing some real work, and during this time we have found that there are no real secrets in the operating end of cotton milling that we as men are not willing to freely discuss and give the other fellow the benefit of our experience in a work that is common to us all. Every man here knows something the other fellow doesn't and when we swap experiences we both go away a stronger man. I believe it was the poet Milton who said after touring Italy: "I became a part of all I met." This is the one great object of this Association. That we give part of every member to the other fellow.

have already unconsciously built up through the Southern Textile Association a great organization of team work, which has made the rapid development and high stand- cent of its capacity.

ard of efficiency attained in the past few years has been brought about, Mr. President, Honorable Mayor and to a large extent, by the intimate Fellow Members of the Southern relations between the members of this Association, who are on the In response to these words of weloperating end of the industry. If ome, I am honored to express the you have kept up with the work of Association, you will know that Association for your generous hos- all the work is not being done in pitality. It has long been our privimeetings of this kind, but that a great deal of experimental work is being done in various mills which is reported at sectional meetings of the different departments at intervening times of the Association meetings. I attended a sectional meeting of the Carding Department at Charlot's last Spring, where many of the important questions of this Department were discussed. At this meeting were present some of the most successful superintendents carders who gave freely their views and experiences, which were of much benefit to many of us. Much good is being done in this and mare other way by the Association.

While we have done a great deal I am informed that during the to effect a strong organization, we ast few years of depression need to get more of the spirit of co-operation injected into the members of the Association, and there will be no limit to what we can do for the industry in this Southland of ours. Let us, therefore, as individuals do our duty in building up thro the Southern Textile Association a great organization of team work which may place the South second to no section, nor any Country in the manufacture of

> If the management of every mill in the South could only realize the possibility of the Association work he would not only gladly encourage men to attend but would be willing to go to some expense to have from one to all foremen and assistants present.

> To reach this high standard of efficiency in Cotton Manufacturing there are other problems with which we have to deal besides a 100 per cent production of first class pro-ducts at a low cost. It is true these are three important requisites, but there is the human element to serve, embracing all the complex problems of life. I repeat, we have come here with a purpose in mind In coming in contact and heart. with each other we hope to return to our respective stations not only better prepared to handle manufacturing problems but better equipped cope with the human problems of life; relieving a burden here and there, and making life happier for the more unfortunate ones

If we should become blind to the betterment of the social and moral conditions of our communities, little or no progress would be possible for the Textile industry in the South. In fact the most rapid progress has been within the past few years since we have given more attention to community welfare. Today, there is hardly a mill village where the living conditions are not fifty to seventy-five per cent better than ten to fifteen years ago, and these same mills Textile industry of the South the that were then producing eighty-five most vicious competitor of all other to ninety per cent are today turning Textile centers. I believe that our out ninety-five to one-hundred per

day along the lines of community welfare, and for the development of the young manhood and womanhood in both Y. W. C. A. and Community buildings, recreation and play grounds which take much of the drudgery out of work and give people something else to live for besides work alone. We men as Superin-tendents, Overseers and Assistants have seen the advantage to industry and to the individual in these developments, and have aided every good movement of this kind. One could not say we are a body of men with a higher than the average literary education, but one cannot find class of men in any industry better equipped to deal with the human industrial problems of our Country In other words, we are full blooded Americans, and believe in developing our industry with the same kind people without the interference and influence of people of foreign blood or of foreign sections.

To fully perform our duty along these lines, it requires ability in leadership and the confidence of others in our character and lives. To be a man capable of coping with all the human and industrial prob-lems of life the mill work requires some of the finest traits of character that can be produced. and I believe you can find in every Superintend-Overseer, and Assistant a great deal of energy and thoroughness in performing his duty. He is keen to see and observe the needs of the day. He is usually a man of good judgment and is fair to all to the extent of the Golden Rule, so far as possible. His knowledge of all

Great strides are being made to- problems makes him resourceful ay along the lines of community enough to do the right thing at the relfare, and for the development of right time. With a body of men ne young manhood and womanhood possessing these qualifications, what is there we cannot do for the Textile industry.

> Let us, therefore, develop in our-selves also all other worthy traits and qualities, and I will say to you good people of Greenville, we have come here to learn more about the entire situation. We are glad indeed to be in your midst, and we trust we shall return to our homes with an organized spirit of co-operation, to make the Southern States the greatest manufacturing center in the world. I believe this can be done with an organized effort the Southern Textile Association. Let us not only do this, but let us go back better prepared to give our employers more efficient service and also betetr equipped to deal with the human problems of our daily Let us also remember that in developing the social, moral, and mental life of our community, we not only serve our industry but our fellow men as well.

The environments at Greenville are conductive to the progress of the textile industry, and we are glad to be with you and partake of your generous hospitality.

> COMPLETE DYEHOUSE EQUIPMENT Special Machinery for Textile Mills The Klauder-Weldon Dyeing Machine Co. Bethayres, Pa.

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The Morse silent chain is used because of its superiority based on the design of the exciasive "rocker-joint" construction, the very highest grade of material and heat treatment, the extreme accuracy in manufacturing and the engineering assistance in the designing of textile drives by engineers trained in this particular line and backed by the long standing reputation of the MORSE CHAIN COMPANY.

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"MORSE" is the guarantee always behind our Efficiency, Durability and Service

eaving and Slashing--and Better Goods

(By W. B. Williams, before Southern

we can put into use each day, rather than to come to you with theory, so what I will have to say to you will be along practical lines gathered by experience.

We will take it for granted that the Warper Beams delivered to the Slasher are filled with an average good Yarn, reasonably clear of knots and gouts, the yarn having received proper attention in each process put through.

threads from a number of Beams It may be necessary to speed up the onto one beam, with the threads size rolls by changing the gear on going through size vat and around the side shaft. This will cause yarn drying Cylinders in the intermediate. to feed faster. When this is done In the slashing of Warps I will call then it is easy to regulate the ten-

ing to Better Goods. I came to the not any more moisture than is coming slowed down, conclusion that it was better to pre-mon in starch, of course, this is to the lease also we can put into the pre-mon in starch, of the pre-mon in starch, of course, this is to the lease also we can put into the pre-mon in starch, of course, this is to the lease also we can put into the pre-mon in starch, of course, this is to the lease also we can put into the pre-mon in starch, of course, this is to the lease also we can put into the pre-mon in starch, of course, this is to the pre-mon in starch, of course, this is to the pre-mon in starch, of course, this is to the pre-mon in starch, of course, this is to the pre-mon in starch, of course, this is to the pre-mon in starch, of course, this is to the pre-mon in starch, of course, this is to the pre-mon in starch, of course, this is to the pre-mon in starch, of course, this is to the pre-mon in starch, of course, this is to the pre-mon in starch, of course, this is to the pre-mon in starch, of course, this is to the pre-mon in starch, of course, this is to the pre-mon in starch, of course, this is to the pre-mon in starch, of course, this is to the pre-mon in starch, of course, this is to the pre-mon in starch, of course, this is to the pre-mon in starch, of course, the pre-mon i I am told that the natural moisture in starch is around 10 per cent. Too much moisture left in the warps will cause the starch to lose in ef-ficiency and shed even before the warps will mildew.

roller bearings so they will turn sheet of yarns. This will easily. be run with tension enough to in-Slashing is a process of running sure the turning of the cylinders your attention some things of sion with flannel on the delivery importance; first, sizing and drying; roll. The head friction should pull second, tension; third, the lease. regular. A little graphite on the A little graphite on the A good size can be made of a mix- disc will help them. This friction ture of water, starch, gum in the should only be run tight enough to yarn, the gum for a binder, the fats take the yarn from the delivery keep the yarn mellow and pli-roll and not to pull the cylinders.

The cloth to be woven should be run on the two back beams of the standpoint: Mr. President, and Gentlemen of body for 64x60s, is too light for swung over the beam head. This to adjust the help and conditions the Southern Textile Association: 72x76s and size that is suitable for weight should be hung on the side of the room to fit the looms. The When I was asked to talk for a 72x76s is too heavy for 64x60s, of beam that is pulling up and he successful average in the few minutes to this Convention of

The lease also has its place in better goods, therefore it is necessary to run the warps straight with the threads well separated. To do this I would begin by counting threads in the strike comb when I lay the set in on the back of slasher. this is done to get a regular sheet The tension has an important all the way across. Then have place in betetr goods. It is best to lease rode on front spread so there have cylinders fitted with ball or will be about a 4" opening in the make it Then the yarn should only easier to see anything that goes with tension enough to in- wrong with the lease.

My opinion is that a double comb front is of great help, one comb with perpendicular teeth, the This will eliminate any crossing of threads or changing their po sitions as they pass around the de-livery roll and onto the beam.

ing them into cloth. Time forbids lengthy discussion of weaving, erefore, I will talk from this

the Southern Textile Association: 72x76s and size that is suitable for weight should be hung on the successful overseer is the man with few minutes to this Convention on Warps should be dried as near the only of sufficient weight to hold high ideals of right living, by his the relation of Slashing and Weav- point as possible, where there is the beams when the slasher is because it is the polynomial of the not any more moisture than is coming slowed down. is a leader and teacher.

Our mill operatives are born, the product of our southland. They have proven that they are second to none in efficiency, yet they must be studied to know their abilities so as to apportion to each weaver the correct number of looms that he can operate successfully. Then if we keep a temperature of about 80 degrees and 70 degrees humidity, looms and floors clean, and the room well lighted, I do believe that we will make better

I thank you.

other with an angle of about 45 de- British Cotton Yarn Mills Enter Price Fixing Pledge.

Manchest, Eng.-Minimum stand-Weaving is the art of interlacing the Ring Yarn Association, of Lanthreads together, with a loom, form-cashire, comprising 67 firms using ring spindles only. The members have pledged themselves not to sell will talk from this below the prices agreed upon.

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In this drive, belting performance counts high in actual production. Spar Oak belting reduces slippage, maintaining the required speed of the machine without increasing the load at the power plant because the pulley side of the belt is live elastic

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There is a Graton & Knight belt that will give you maximum power per square inch of pulley surface, a belt that will cling to the job year in and year out, but there is no such thing as a universal belt. Each particular drive presents its own problem. The Graton & Knight engineering department is at your service at all times. No obligation involved when you call upon it to answer your belting questions.

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B. PLAYER

The humid atmosphere in textile mills causes employees to consume large quantities of water. These employees require cool water supplied in a sanitary manner - the "old tin cup" won't do.

A PURO Cooler with its Sanitary Fountain is the logical dispenser of Pure Cool Drinking water.

We are holding a copy of catalog for you-may we send it?

Made only by the

PURO SANITARY DRINKING FOUNTAIN CO.,

Haydenville, Mass.

Relation of Spinning to Better Goods

When requested to talk for a few minutes at this meeting on "The Relation of the Spinning Room to Better Goods," I thought of trying to prepare a paper that would cover every detail of the management of that affect the quality of yarn during the process of spinning.

As the limited time we have will I will refer very briefly to a few of the things that must be looked after if we are to produce the good. even yarn that is so essential to ning room. This will, of course, deable to do, or may want to do in the spent. Card Room.

how much you should draft in the Spinning Room on the various numbers being spun, as you gentlemen with your knowledge of the local conditions in your mills are better able to determine that than anyonc else. I will say, however, that it is my opinion that bad running spinning, resulting in bad, uneven yarn, is sometimes caused by too much drafting in the Card Room as well as in the Spinning Room A good many mills have found that they can run with considerably less twist than was once thought neces-I have in mind a mill that is running four teeth less twist on 30s warp than was formerly run.

ward making the "Better Goods" we moved. are trying to make.

We all know that in order to produce even yarn a spinning frame should be periodically levelled and lined, the rolls cleaned, the spindles rings, and guide-wires properly set and the spindles, rolls, etc., regularly oiled. But do we see that this work is done?

We know further, that blunt or worn roving skewers and loose or broken steps put undue strain on the roving. We also know that bad top rolls, roving traverses that are not working, worn saddles, levers. or lever screws, or levers resting on the boards will cause uneven work. We know these things, but do we see that they are properly looked after?

Upon taking charge of a Spinning Room once, I remember finding one section of filling that had been, and was then causing lots of trouble found that the section men had

(By J. B. Harris, before Southern been turning over the rings wher-Textile Association.) ever they found one badly worn until new rings and old ones mixed all over the job, and they were using the same weight travelers on both. You can readily imagine the result of such a mixture. In another part of the same room I found new rings that had been running for several months which had a spinning room. After considering the matter, I reached the conclusion that it would take more clusion that it would take more done. Lack of attention to matters time than we have today to enumer-ate in detail the many "little things" work work.

Passing to the Spooling and Warping for a moment, we find another place where the "little things" must not permit of a lengthy discussion, be looked after. A few thread I will refer very briefly to a few guides on each frame set too wide, letting through slubs, gouts, loose threads, etc., and a few set too close, straining and "skimming" the yarn, "Better Goods." Among the most will make a material difference in important it, the amount of draft-the quality of it. A little time deing that shall be done in the spin-voted to seeing that your warpers voted to seeing that your warpers stop when a thread breaks, and that pend to a certain extent upon the the slack roll is working smoothly amount of drafting you may be and preventing kinks, is time well

I will not undertake to suggest have been held since the Southern Textile Association was organized. At each of these meetings we can learn something worth while to us and our employers if we are looking for it. This is particularly true of the Sectional meetings. The ben-efit our employers derive from the new ideas and new methods we learn here, will depend on our putting them into effect in our respective mills. Some times our new ideas and new methods do not work our as well at first as we expected, and we become too easily discouraged and slip back into the old rut. If there is any one thing that I consider of vital importance in "The running four teeth less twist on sider of vital importance in "The 30s warp than was formerly run. The yarn is as strong, and their Better Goods," it is that the Spinning Room to Better Goods," it is that the Spinning Room be in charge of a man who is willing to look after the "little things," who is wide awake must be looked after to properly enough, and energetic enough to manage a Spinning Room, are look-keep up with what the other fellow ed after, you can run close around is doing, and who has "Stick-to-itstandard twist and get a good. even yarn that will help a great deal to-work until the cause of it is reward making the "Better Goods" we moved.

F. J. Domo & Co. Cotton Brokers

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Here are perfect 3-ply Veneer Packing Case Shooks. Their extreme lightness saves 20 to 30 lbs. in freight on every case shipped. They are stronger than inch boards, burglar proof, waterproof and clean—no cracks for dirt to sift through. Write Fer Prices and Samples Our Prices are Convincing Our Service is Quick Wilts Veneer to. Richmond. Va.

Wilts Veneer Co., Richm

Cotton Spinning: Future Possibilities.

In the mixing of cotton one can imagine the practically total elimination of the dirty and clumsy travelling lattices and the substitution pneumatic systems to convey the cotton from the bale breaker to the bin, thus extracting much dust and impurities and preventing the deposit of shells and leaves on the mixings over which a lattice travels. The same principle, of course, is already used in the cages of all openand scutchers and also in pirators on the comber, but so far is only used to a limited extent in the mixing room. The future will see the delivery of cotton to the The future will opened from cages, which, of course is purely a pneumatic method; but before this is done methods of opening cotton more thoroughly will be devised. The clumsy methods of past ages still survive in most of our The original onening machines. The original use of the Crighton opener for short-stapled stamped that intention machines. so indelibly on mill authorities and machine makers that only a few even vet understand its action or avpreciate its use for any cotton Opening cotton by beating it in a free condition in air is the only way that will be adonted in the future. Already we find the vertical beater opener being used by few intelligent firms for a wide range of cottons, and there is no doubt that in the very near future the principle will he rapidly developed. A great advance has been made in this direction and yielded results that indicate very clearly hat a single opening process is sufficient without any further freat-ment. The use of the scutcher is not necessary as a cleaning or onening machine when the newest tyne of opener is in operation; its use as a mixer of laps and to form uni-form laps ready for the card can only continue until a device or machine is brought out that will form previously well-opened cotton into uniform lap without any beating action. One-third to one-half of the blowing-room machinery would then be scrapped. There is nothing compatible with present develop-ments to prevent anticipation of these great improvements in opening and cleaning cotton and considerably reducing the number of machines required for this purpose.

Details connected with the blowing room will follow this line of development, and fans, flues and dust cellars will be constructed on sound. practical lines, and aspirators such as we find on the comber will colthe fibres and remove the dust and dirt from such machines as the openers and cards. It is easy to such an aspirator in the dust chamber.

glance in the cardroom will probably sugest to the very thought- pointed needles. ful observer that the future holds greater promise of developments here than in the blowing room There have not been lacking imagi- information, such as speeds, drafts native souls who have conceived the hanks, etc., that lead up to and inidea of a machine to take in a card clude the spinning of the yarn. All sliver and deliver a yarn, and have this is done (and ought to be done) even gone a step further and in- by an intel vented machine to do it. We find assistants. nothing of the kind in our mills to-

the great number of machines in the cardroom must be constantly worrying our inventive geniuses to devise means of getting rid of many of them and to save capital, labor, room and accessories, such as power bobbins, cans, etc. Probably fail-ures in the past have been due to primitive ideas of drafting, diameters of rollers, weighting and spacing of rollers. When we consider that all the cardroom machines are employed in preparing the cotton for the spinning machines, it requires little thought to realize that a more thorough understanding of drafting and the utilisation of this drafting in an increase of draft in the spinning machines, there would naturally follow a great reduction in machines in the cardroom. If moreover, the same understanding was brought to bear frames and other machines in the limited cardroom. the present amount of draft could be increased. and a still further decrease in machines would be the natural result.

Associated with this reduction in cardroom machinery other impor-tant effects follow from the better understanding of drafting. Drafts will not only be greater, but it will be far superior to what occurs usually between rollers, so that uniformity and strength are both increased. Whilst this all comes within a conceived picture of the future in a general sense, the writer has seen the process actually at work or large commercial scale, producing the results indicated above.

We can still enlarge our picture of the future by giving a thought to management and organization. The day of secrets in cotton spinning are long past. Examples could be given of up-to-date mills where every departmental head and their assistants are made acquainted fully with detailed information of every, sec tion of the mill processes, and all faulty work carefully considered by them. Even every female operative in the mill (in groups at a time) are shown samples of cotton in its various stages at frequent intervals and instructional advice given and comments encouraged.

Every sample of cotton in its various stages is taken by someone entirely independent of departmental heads, and tests made on modern testing machines. Misroscopic work is done and micro-photographs taken of cottons and yarn. All these tests are tabulated and each day sub-All these mitted to the manager, after which they are duly filed for future ref-erence. This testing is carried out in all directions, and to give one instance of its usefulness it may be mentioned that every row of new needles in the half lap of comber is put under the microscope and photographed in order to have di-

tails of the cotton and all necessary by an intelligent woman and her girl

day for counts outside waste. Yet successful of French mills presented phase will develop. If a writer now an example of thoroughness in this direction and extended even to obtaining the average length of the fibres of every sample of cotton submitted, and this is done before buying, and also frequently at each The laboratory, if it may process. be so called, is situated some considerable distance from the mills The manager of these mills, old as he is in experience and successul as he has been, openly confessed that a great deal had still to be learned about cotton spinning. Mills themselves are not experimental rooms and it is almost foolish to use them as such, but experimental machinery can be easily installed which, if made for wide variations, and with readily adjustable arrangements would quickly solve some of the problems which frequently confront mill management.

> Every up-to-date mill ought to be able to produce a sample of yaru from a broker's sample of cotton within an hour of its delivery at the mill, and this method will certainly be the main criterion of the future as a basis for purchase.

> Methods of recording, in a systematic manner, wil become an absolute necessity in well-managed mills of the future, and the managers' office will become the repository of every item of information concerning the mill and its operations, whether inwards or outwards. He must know at once whether his cotton is coming through to sample his waste increasing or decreasing: the cofton at each process in regard to qualify and correctness of hank etc.; why productions vary; why a machine is stopped; his stock of cotton, yarn and conditioning at any given moment; quality of his coal and costs per unit of power; charts not merely of cotton or yarn prices obtained long after the events, but charts of a variety of important facconnected with organization These methods will naturally vary from those adopted in many mills today, when a manager, after six months or more, suddenly begins to be suspicious that one or more his cottons is deteriorating, or that there is an appreciable percentage of more waste in his cottons, or is being taken out in the processes.

Another and very important feature that the future holds in store effect of the research work now being so thoroughly carried out recognized centres by highly trained observers. Who is going to interpret the hundreds and thousands of observations carefully compiled? Who is going to translate them in a practical form so that piled? can be utilized in the mill? they Are our future managers going to receive their instructions from a college or laboratory? Are the responsible of mills and departments rect evidence of perfectly level and of the mills preparing themselves to appreciate and to understand these being a special form filled in with full dedealing with the cotton fibre?

Our technical schools, certainly the better type of schools, recognizing the necessity of a scientific training for students, have made the acy an intelligent woman and her girl mechanics, engineering, etc., to oc- their purchasing power is still cur-sistants.

A recent visit to one of the most teaching of cotton spinning. This small. (Consul W. A. Bickers.

uses the harmless little letter in a cotton-spinning calculation, it is no longer jeered at as "theory." The coming mill manager will consider it child's play to follow out the necessary mathematical demonstration of why a variable speed of spindle is an advantage in a ring frame. A. B. Sc. will not necessarily enable a man to supervise a department or manager a mill, but if equipped and possessiong practical mind, combined with ability to turn his scientific training to practical use, he will have the making of a serious competitor to those who rely upon memory, rule of thumb or notebooks.—B. W. Scott in Textile Recorder of Manchester. England.

Color Card Association Introduces New Shades.

The Textile Color Card Associa-tion of the United States. Inc., is just releasing to its members the 1923 spring season color card of America, forecasting the colors that will be fashionable during the coming spring and summer seasons. new card portrays eighty colors. sixty-six of which are shown in silks and fourteen in worsted fabrics. In a separate group are ten shoe, leather and hosiery shades.

Among many innovations are Strawberry, Crushed Berry and dul-set greens, all of which are derived from Persia pink and a deep strawherry shade caled Rubvait. There are two ranges of cool gravish greens, one showing Pistache and Eucalvotus tones and the other Almond Green and Blue Spruce. Some Egyptian blues are called Cleonatra Rameses and Pharaoh, and blend harmoniously with the deen golden orange of Oriole and Eldorda. Venefian influence is conveyed in roses hades and light greens such as Harlequin, Meadow Grass and Cress.

Orchid and violet shades prominent. There are pinks called Clover and Onhelia, blue tones known as Daybreak and Viola, and a rich purple called Fireweed In browns there are Cork. Sandalwood and Oakwood, as well as a number of golden harvest browns, creamy tans and new sand shades. are some novels and some light browns in the woolen group, called Sirocco, Pampas and Pueblo. The gravs are named Granite and Traprock, and there is a yellowish tan called Calabash. The card will be out for general distribution to the trade about November 6. it is stated by Margaret Hayden Rorke, managing director of the association

Dominican Republic Cotton-Goods Market Overstocked.

During 1920 cotton goods of all kinds were imported into the Dominican Republic far in excess of the existing demand, and since that time trade has been slack. At present stocks in general are of a very poor students, have made the ac- assortment, and while some mer-subjects of mathematics, chants are buying for replacement

Invention and the Cotton Industry. Room to Better Goods. (Continued from Page 6.)

96 mills near Providence, containing 65,000 spindles, or an average of 680 spindles per mill. Eighteen of these mills had less than 300 spindles and the largest had only 5,000. During this period, most of son Machine We the machinery was built by the mills in the year 1845. themselves, although we have record The Draper Co that in 1913 the Boston Manufacturing Company at Waltham began to sell machinery to other mills under certain patents which they held.

It is also a fact of interest that the Boston Manufacturing Company's which was incorporated 1813 was the first mill in the world where the whole process of cotton manufacturing from spinning to weaving was carried on by power the first mill being one of 3,00c spindles, turning out goods at the rate of 4,000 yards per week. It is rather a coincidence that the President of this Association, Mr. Robert Amory, is today running the Boston Manufacturing Company

Genesis of Big Machine Shops The first of the American machine shops had their beginning around this time, and they were brought into being very largely by the invention and development of new and improved machinery for the mills.

The Lowell Machine Shops were founded by the proprietors of the Locks and Canals Company at Lowell to build machinery for the development which was carried on there, the year being about 1824. The Pettee Machine Works were started by Otis Pettee, who was by trade a master mechanic, his first order being the machinery for a cotton mill to be built at Nashua and this machinery was delivered by ox team over the road. These shops were founded in 1932. In 1839 the Saco Water Power Company was started, which took over the machine shops which had been built by the York Manufacturing Company to supply their own needs for textile machinery.

The Kitson Machine Company was

started by Richard Kitson in 1849 he being one of the first manufac-turers to make needle-pointed card clothing in America. Picking machinery was then taken up by them in 1852, and has been built by them ever since. These shops are now represented by the well-known firm

of Saco-Lowell Shops.

In 1826 Paul Whitin & Sons at Northbridge, Massachusetts, were operating a small iron smelting plant and forge, employing four men making repairs for cotton mills, also hoes and scythes for agricultural work. From this small beginning the Whitin Machine Works owes its start. In 1831 John C. Whitin took out a patent for a picker, the suc-cess of which laid the foundation

The present growth.

The present Fales & Jenks firm goes back to the partnership in 1830 of Alvin Jenks and David G. Fales. the first machine constructed by them being a spooler, sold for \$60.

It is also of interest to note that in the first two years of the existence of the firm they manufactured cot-ton-spinning and thread-making ma-chinery, and their development has

who was reoriginator of the American type of

The Draper Corporation may be said to have had its early beginnings nerships.
through the invention of Ira Draper It is ou run only one. However, Cotton Chats of October, 1901, gives to

from the inventive ability of Wil- establishing the present successful shops, as they came into being very liam Mason, who was the inventor of company. In 1852 he formed part- largely through inventive ability of nership with his older brother, sponsible for the development of the D. Draper, and moved to Hopedale ring travelver, and who was the in 1853. In 1856, E. D. and G. Draper took over the debts and assets of the locomotive engine, the present Ma-Hopedale Community, and the presson Machine Works being erected ent Draper Corporation is the result of the consolidation at different times of the various Draper part-

It is out of the question, however, on temples. his first invention being to make a complete record of the of a rotary temple, the use of which start of all the machine shops, but enables a weaver to run two looms they had their beginning and their where before he had been able to impetus from invention or from im-

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SIDE from all thought of price or service, every cotton mill man knows it was our A. B. C. Guarantee that placed brush buying on an efficiency basis. In other words, you know, when placing your order, what to expect—what you are going

The success of our brushes is due to the fact that we know what kind of brushes are needed in textile mills, and we, also, realize the importance of making them as good as it is possible for brushes to be made.

We have the facilities, machinery, equipment, ample space, abundant light, experienced workmen, and the desire to excel.

Perhaps that is why nine-tenths of the brushes used in Southern cotton mills are made by the

Atlanta Brush Co.

Atlanta, Ga.



chinery, and their development has been largely along these lines ever A Brush for every Textile Need

The Mason Machine Works started George Draper the credit for firmly development of the early machine their founders, and today invention. while it may originate in the mills, is carried to its logical conclusion through their agencies.

Invention, which at one time was the result of experiment on "cut and dry" methods, is becoming today more and more the conclusion of a definite purpose. No more outstanding illustrations of this is to be had than in the development of the Northrop loom. Starting in 1888 e, the use of which start of all the machine shops, but Northrop loom. Starting in 1888 to run two looms they had their beginning and their with the definite purpose of prohad been able to impetus from invention or from imHowever, Cotton provement of existing machines.

The provided However is a start of all the machine shops, but Northrop loom. Starting in 1888 with the definite purpose of production an automatic loom, they put on the market, in 1894, a perfected machine, the outcome of the efforts of five inventors devoted to this task several years

Preeminent American Invention.

It would be beyond the space available for this paper to enumerate in detail the splendid record of American invention. I should like. however, to touch but lightly upon those accomplishments which stand out preeminently in our annals. To

my mind these are as follows:
The invention of ring spinning by an American named John Thorpe in 1828; the invention of the traveler Addison and Stevens which was an essential adjunct to ring spinning, followed in 1880 by the development of the Rabbeth type of spindle (for which credit must be given to a number of inventors who perfected it), thus completing the spinning frame, whereby production was raised from a spindle speed of 4,000 or 5 000 turns a minute to at least 9,000 or 10,000 turns

Going back again to the invention of the self-acting temple for looms in 1816 by Ira Draper, followed by the invention of the shuttle guard for looms, let off motions, parallel pick motions, self-threading shut-tles, etc., these all made possible the marketing of the automatic loom in 1894. The self-stripping motion for cards by Woodman and Wellman. the application of the stop motion to drawing frame are also contributions from American inventors. From England we have the development of the compound motion on the roving frame, although America shares in this through the fact that this was the invention of Aza Arnold, a citizen of Rhode Island, in The year 1845 is to be noted the invention of the cotton for combing machine by Heilmann of Mulhausen, Alsace, the principles of which are still used today on all combing machines. To England goes the honor of the development of the revolving for flat cond in 1857 by revolving top flat card in 1857 by Evan Leigh of Manchester.

The lesson which comes to my mind is, first, that the inter-dependence of invention upon invention resulting in the perfection of the machines today (and there is in the mechanical field no more per-(and there is in fect, more mechanical or more automatic machinery than is seen in the cotton mill) rests not on the efforts of one man, but on the constant endeavor and study of thousands of those who have gone before, and, secondly, that upon successful invention rests the prosperity of our mills today.

And now before closing this ar-(Continued on Page 24.)

(By Kenneth Moller, Engineer, Lockwood, Green & Co., Moston, Mass.)
(An address before the National Association of Cotton Manufacturers.)

It must be distinctly understood that the points brought out are harly any of them commercial possibilities today, but we do consider them all experimental possibilities. The sole object of this paper is to point out a possible line of development for the future, and to tell what some people are doing in this direction.

I suppose it seems like heresy to say that any radical changes or improvements can be made in an industry which was old when America was discovered-probably the oldest industry in the world, and one that has certainly been considered as highly developed for the past one hundred years.

The Draper Company, in its Tex-tile Texts, gives a list of "Interest-ing Dates" in Cotton Machinery The first date given is 1730, the last 1870. Just think, not a single interesting date in the development of cotton machinery for fifty-two years. I think Draper a little modest in this statement. Certainly, 1894, "The Commercial Application of the Draper Loom" is interesting to a good many people. It is true, however, that development in the cotton manufacturing processes for the last fifty years have been mostly of a minor nature —a new shuttle here, a new tension device there. Perhaps the most important improvements have been the application of power to hand opera-tions. Probably the two most important ones requiring inventive I hesitate to say it, but I have This would give us a yarn direct genius have been the Draper Loom seen very fair cotton yarn made from the bale via the vertical openand the Barber-Colman Warp Tying Machine.

Expect Early Improvements.

Have we come to a standstill in the development of the cotton machinery process? Will our sons and grandsons be manufacturing on the same machinery and the same processes which we are using today? I personally think it very questionable and in the next decade look for tremendous forward strides and real pioneer work in this oldest of industries.

What are the processes involved what are the processes involved in cotton goods manufacturing what are people doing to reduce and modify these processes, and what are the posible developments for thef uture? The ordinary routing for a general model with might tine for a coarse goods mill might be outlined as follows:

1st, a vertical opener;

2nd, two or three processes of picking:

3rd, a card;

4th, two or more processes of drawing:

5th, a slubber;

6th, an intermediate;

7th, a frame;

8th, a spinning frame:

9th, a spooler;

10th, a warper; 11th, a slasher;

12th, a loom.

Twelve processes, and possibly sixteen machines, which cotton goes through today, from the bale to the gray goods. Certain of these machines perform separate functions,

but in varying degrees.

functions of blending and evening. The drawing, roving and spinning processes have thef unction of blending, drawing, laying the fibres parellel, and twisting. It is obvious that bale cotton must be opened and cleaned, therefore, we will always some processes corresponding to picking.

therefore, we can probably consider cotton. some form of spinning frame as a It is perfectly possible to put a fixture. This means that the least 4-head coiler on a card, take off a opener, a card and a spinning frame.

Possibility of Combing Machines. frame.

ing the fibres parellel, blending and reason for running a picker was to theoretically evening the sliver. Slubbers, intermediates, fine frames and spinning frames are for producin the size of the roving, further blending, theoretically further evening and twisting the fibre. All these processes have the common functions of blending and evening. it. This would be rather a radical and nothing but cards and spinning change in the manufacturing of frames in the mill. Of necessity, change in the manufacturing of cotton yarns-directly from a vertical opener to a card. No one be conducted on coarse yarns; then, touches the cotton from the bale later, refined for the finer goods. to card sliver.

In experiments which we have run at our Cotton Research Company, an The fibres must be separated and apron was put on the back of the small foreign matter taken out, and cards, the open cotton which had the fibres arranged for spinning passed through three Creighton We will probably always use cards openers was laid on this apron in for this purpose. After we get card measured quantities; the result was cliver all of the other processes, as a clean, even card sliver, entirely has been shown, are used for five satisfactory in every way. This was purposes-blending, evening, laying later spun by the ordinary method the fibres parellel, drawing and into a 23s single yarn and showed twisting. Card sliver will certainly a break equal to or above the stand-have to be twisted to make a yarn, and for that size yarn and type of

conceivable machinery for spinning small sliver, put this directly on to cotton from the bale will be an the slubber and spin counts up to 15s or even finer on the spinning

The Future of Cotton Manufactures, others perform the same functions with only these three machines. I er, the card, the slubber and the have seen good cotton yarn made spining frame. The only missing with a vertical opener, a card, a link today is a satisfactory hopper. Let us first consider the machines slubber and a spinning frame; in feed for the cards. Just visualize a property assignment of the cards. Let us first consider the machines slubber and a spinning frame; in feed for the cards. Just visualize a through spinning. It is possible to one plant, with two Creighton or mill on this system—a cotton ware-goup the functions into three or four classes. Vertical openers, pickers and cards are obviously machines for opening and blending the cotton. This might be one function. Drawing frames are for lay-tion. Drawing frames are for lay-treason for running a picker was for spinning frame. spinning frame.

all developments of this nature must and I strongly recommend to any spinner of coarse yarns, say up to 15s, that he try the experiment of manufacturing these yarns with his regular picking process, a card with a 4-head coiler, a slubber and a spinning frame. I know he will be surprised at the results.

This is really nothing but a wellknown waste system applied to good cotton, and one process of carding left out. I believe that it has been called a waste system so long that people have not thought of the possibilities of developing it for cotton. Just imagine the saving of floor space, initial investment, power labor, waste and inventory in such a mill. This all sounds like H. G. Wells' "War of the Worlds" which we read twenty years ago, but we were surprised at Mr. Wells' prophecy during 1914-1918.

I know many manufacturers will sav this thing is impossible, that we will not get the blending, we will not get uniform size, we will not have the fibres parallel. In comparison with the present system this may be true. There are other ways of getting blending, and do we know how much we need? As for size, a great many tests have shown the card sliver as the evenest sliver in the mill. For even yarn, we are in-terested in the relative weight of sliver inch per inch, even more than yarn per yard. The principal effect of drawing is not to get even-ness but to lay the fibres parallel. How much of this is necessary for coarse yarns?

The Ring Mule.

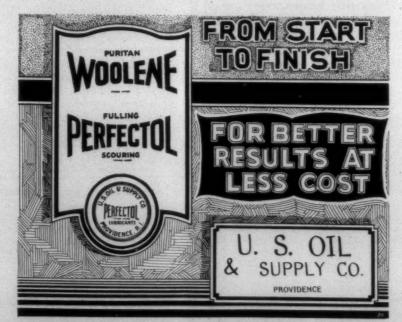
frame is being developed in England which will spin on the bare spindle. They call it the ring mule. This is a problem well worth work-

ing on.

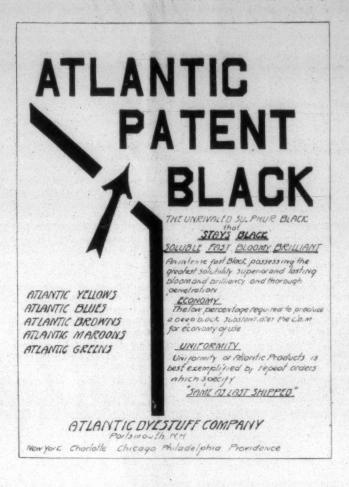
Look at the progress draft spinning as made abroad. A Lockwood, Greene man, in Switzerland last year, saw them spin 90s single from a double 6 hank roving—a draft on the spinning frame of

Take the German creel which has been described and which warps direct from filling-wind bobbins, cutting out the spooler. This has been running for twelve years in Germany. I saw one running in New England a few months ago.

Look at the possibilities of the (Continued on Page 24.)



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duced. Estimates place the present monthly consumption of raw cotton at 40,000 bales.

Netherland Mills Occupied.

"In the Netherlands, as in Italy and Switzerland, the mills at present are well occupied, although slackness may develop in the winter months.

"Belgium textile mills are operating at about an 80 per cent capacity and although conditions are better than a year ago new difficulties are causing anxiety.

"Polish cotton mills have been running at capacity for a long time and many are now operating shifts of eight hours each. While the spindlage is approximately 900,-While renorts indicate that the non last hasis of production is just about double due to the overtime operations. The chief reason for this activity rests in the steady export trade, which is estimated at between 30 and 40 per cent of total produc-Vary little business is haine done with Russia, most of the Polish products finding its way into the Bolkans and Germany. Raw cot. ton stocks are readily available some American shippers maintain ing stocks at Bremen or in Lody against which spinners draw according to their requirements. The Polish textile industry is noteworthy in that the larger textile interests combine spinning, weaving, bleach ing, dveing, napping, and other on erations, an exceptional condition

time but economic and financial upheaval is causing material slacken-It is estimated that half of the coffon varn spun in Austria is woven domestically, the remainder going for export to nearby countries. Of its cotton goods Austria imports five times as much cotton as it exand mills are therefore confronted with an increasingly empurrassing problem. Czecho-Slovakia due to relatively high currency value and high internal prices, cannot at present consume or export mill production, and therefore, mills are in an extremely difficult situation, many operating only two or three days a week. The belief prevalent, however, that as domestic difficulties economic improve,

in September, 1922, figured at the are the latest available. current exchange, were slightly lower than those paid in February the Commonwealth 5,338,177 Male piece workers for a week of of tweeds and woolens. In 48 hours received \$13.64, male time South Wales the figure was 2,208, gravers \$16.76. Belgian male spin- all Australia in the same year ners operating 1,600 spindles receive amounted to 4,741,621 yards. (Trade at the current exchange, \$186 per Commissioner J. S. Sanger, Melhour and an additional \$006 per bourne, September 7.) hour for each additional 200 spindles up to 2,400. Ring spinners operating up to 300 spindles receive \$.404 per hour per 100 spindles and \$0066 per hour for each 50 additional spindles

in work or about as soon as pro- Wages in the Italian textile industry at present averaged on September 7: Female cotton spinners, 1.53 lire (the New York rate for the era on Sept, 7 was 434 cents); cotton weavers, 1.45 lire.

South' China Demand for Gray Shirtings.

A good market for American gray cotton shirtings 'exists in South China, and this class of cotton cloth comprises one of the large piece-goods imports into Hongkong. During 1921 there were 215,750 pieces of gray shirtings imported into Hongkong. These came principally from Japan and North China. The success of American goods in this mar ket would depend largely on the ability to meet Japanese competitive (Vice Consul William J. Mc-Cafferty, Hongkong, August 26.)

Exports of French Silks Increase.

The export value of French silks for the first six months of this year was higher than in January-June. 1921, the figures being respectively 676,175,000 francs and 615,884,000 francs. Exports went principally to England, the United States, Belgium Argentina, Germany. and Swifze land. [A detailed statement of the French foreign silk trade may be obtained from the Textile Division. Bureau of Foreign and Domestic Commerce, Washington, by referring to file No 70904.1 (Consul Hugh H Watson, Lyon, September 20.)

"Austria has been operating full Brazilian Cotton Piece Goods Production.

Brazilian production of cotton niece goods has increased in the last few years. In 1913, 210 mills last few years. In 1913, 210 mills manufactured 389,000,000 meters of cloth, compared with 587,000,000 meters turned out by 313 mills in Production in the latter year 1920. was divided as follows: Unbleached. 162,000,000 meters; bleached, 150,-000,000 meters; printed, 275,000,000 meters. (Consul General A. Gaulin Rio de Janeiro, August 26.)

Australian Woolen Mill Production

The production of woolen mills in Australia consists chiefly of tweeds, flannels, and blankets, all of coffon industry wil do likewse. which have a high reputation for "Unemployment in English textile purity and durability. Production industries is decreasing but wages figures for the fiscal year 1919-1920 year there were manufactured in the Commonwealth 5,338,177 yards workers \$12.08, machine men for a 846 yards and in Victoria 2.212.202 week of 47 hours \$14.94, and en-yards. The production of flannel in

Irish Flax Acreage Lower.

Estimates of the Irish flax acreage very from 20,000 to 25.000 acres up to 504, while operators of 525 The former figure is about half the spindles receive a further increase 1921 area, but it should be rememof \$.0066 per hour. Belgian weav-hered that there was a very large ers receive \$.12, \$.17 and \$.19 per carry-over from the 1920 Irish crop hour for operating 2, 4, and 6 looms event crop reports state that alrespectively. Unemployment in Bel- though the acreage is the record gian textile industries is decreasing low, the yield prospects are high

C. Manufacturers Meet

mill men was reelected president of the association while Robert W. Sullivan, secretary and treasurer of the same mill was again chosen to serve the association in a similar was elected vice-president. The following six men were elected as members of the executive committee: J. H. Morgan, Spartanburg; Dr. H. A. Ligon, Spartanburg; R. B. Pitts, Camden; W. C. Hamrick, Gaffney; J. C. Self, Greenville; Geo. M. Wright, Laurens.

The opening meeting of the convention was held at the Grand theatre at noon when Senator Dial made a lengthy address on the subject of "Relations of Government to Indus-Senator Dial declared that the government should play a veritable game of "hands off" so far as practicale in its relation to industry, in-sisted that his proposed cotton fu-tures act would give the Southern farmer a share in the profits of his toil in growing cotton and took a healthy swing at the Republican regime of one Warren Gamael Hard-A large crowd of cotton mill men from over the state and local citizens in general heard the solon.

The address of President Hammelt at the business session of the asso-ciation held at Cleveland Hall yesterday afternoon was one of the features of the meeting. Mr. Hammett asserted that the industry has just passed through a year of un-certainty but that in most cases the spell has been comparatively well weathered by the mills of the state The fuel situation has been one of momentary uncertainty during the year and many of the mills have been hard put to remain open. In this conection, Mr. Hammett urged immediate further development of the hydro-electric power of upper son. While it is pleasant to have South Carolina as the best solution available an abundant labor supply of the situation.

President Hammett's Address.

The textile industry in South Carolina, representing close to 200 etablishments scattered chiefly over the Piedmont area during the past year has been passing through another lap of the economic depression following in the wake of the World War, according to President James D. Hammett, of the Cotton Manu-facturers' Association of South Carolina, in his address before the anweathering the storm in comparatively good fashion.

the fiscal year of your association been used largely in holding organizations together and with every efing thousands of men and women do take pride in the fact that we to manage so that the men and wosenting 15 per cent of the total white population of the entire state) of life. As an association we have, through our committees, been active, and of great benefit to the industry, and I cannot too strongly urge upon members the importance of giving loyal and active support to every branch of the association work. It is not my purpose to discuss in detail the activities of the various committees, but rather leave to the committee reports the interesting facts of their activities and briefly call atention to a few subjects that occur to me as being of sufficient importance to demand the attention of all the associations members, and, to some extent, the public at large.

"Labor has been abundant, and at the moment the indications are that more labor will be available be economically This condition has been, to a large extent, brought about because of the ravages of the boll weevil added to an unfavorable growing season. While it is pleasant to have we must not overlook the that the migration of the farmer to the mills will ultimately result in a lessened cotton acreage in he immediate vicinity of the mills, ad that an additional quantity of cot-ton will have to be brought to the mills from distant markets with the added freight charges to be carried in the cost sheets. Labor has been more active and effective in producing a maximum of production, and many cases have grasped the nual fall convention of the associa- idea that mills were operating with tion here Tuesday. The mills in practically no profit at all, consethis state, Mr. Hammett said are quently the thinking element of employes have been disposed to add

Greenville, S. C.—The annual fall During the year the mills have al- to assist in making possible the who should not be subjected to convention of the Cotton Manufac- most all been in continuous opera- unbroken operation of the plants such hardships as is now possible turers. Association of South Caro- tion, have supplied work and a liv- The wage scales have not been As an antidote I strongly urge the tile Hall.

President Hammett, president of culated throughout the state, fol-rental for homes at many Eastern

The chairmen of the Legislative mill centers, and, in addition, are and Taxation committees will read one of the state's best known

"The twelve months covered by furnished fuel at cost, and often at post to work t furnished fuel at cost, and often at port to you in an interesting way a loss to the mills, and that senti- Another decided movement was has been one of uncertainty to all ment has not been altogether dis-made to enact a 48-hour labor law manufacturers and the time has carded by the Southern mill offi- at the last session of the legislatiure. cials, but, on the other hand, a sym- and while the bill was passed in pathetic feeling and often an af- the house, the senate wisely subment would resent any activities on be difficult, if not impossible the part of agitators whether from Massachusetts alone has a 48-hour do take pride in the fact that we across the seas or from sections of law for its textile interests, and it have demonstrated our earnest effor the United States where conditions is a notorious fact that extension of men. (120,000 employes and de- ditions existing in Southern mill is no longer thought of. The think pendents on employes and repre- centrs. Comfortable homes, often in element of the employees in with free water and sewerage conmill communities.

so distinctly able that I feel it ple. would be presumptious for me to effective join with all industry, as well as agricultural interests, in decrying condition which permits the dictates of a few men to destroy the opportunity of all the people to do all. securing commodities from a distance which are necessary to the undue proportion of the burden. comfort and happiness, yes, even the lives of American men, women and uninterrupted traffic between the states may always be enjoyed.

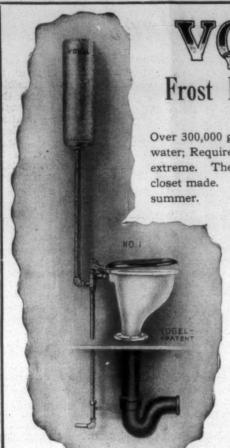
amount importance to the industry The fuel problem is dependent oftentimes on labor conditions in the coal fields, and as has recently been the case, considerable embarrass-ment has been felt by many mills. and we have suffered the unpleas-

lina, featured by an address by ing for 45 per cent of the white changed during the year, though powers in control, and the people United States Senator N. B. Dial, the population of the state. Wages have business was unprofitable. While generally, to give such consideration annual report of the President, not been cut during the period and our friends and competitors of the as will insure a gradual develop-James D. Hammett and election of the mills have been gradually get. East have been through an unpleasment of sufficient electrical energy officers for the ensuing year, was ting back toward a normal basis of ant labor disturbance, the thinking as to operate all the industries of the chief event Tuesday of the fifth operation.

Southern operative has realized that our state, and relieve the uncertain day of the Southern Textile Exposi- Mr. Hammett's address, which by Southern mills furnish comfortable and unhappy conditions existing betion now drawing to a close at Tex- resolution passed at the convention homes at a rental that will not ex- cause of our dependence on the coal

"The chairmen of the Legislative capacity. Emslie Nicholson, presi- fort to give employes the maximum fectionate regard exists between the structure a so-hoth state of the Monarch Mills of Union of employment so as to avoid suffer- executive and the employe. Em- came a law. As an industry we condent of the Monarch Mills of Union of employment so as to avoid suffer- executive and the employe. Em- came a law. As an industry we condent of the Monarch Mills of Union of employment so as to avoid suffer- executive and the employe. Em- came a law. As an industry we condent of the Monarch Mills of Union of employment so as to avoid suffer- executive and the employe. Em- came a law. As an industry we condent of the Monarch Mills of Union of employment so as to avoid suffer- executive and the employe. Em- came a law. As an industry we condent of the Monarch Mills of Union of employment so as to avoid suffer- executive and the employe. Em- came a law. As an industry we condent of the Monarch Mills of Union of employment so as to avoid suffer- executive and the employe. Em- came a law. As an industry we condent of the Monarch Mills of Union of employment so as to avoid suffer- executive and the employe. Em- came a law. As an industry we condent of the Monarch Mills of Union of employment so as to avoid suffer- executive and the employer. could. As a period for earning divi- to a man, and with the management textile interests of South Carolina dends we cannot truthfully point of the same flesh and blood, we in position where competition with with pride to results; yet we, as trust and believe the thinking ele- our competitors of other state would one of the large industries employ- ment would resent any activities on be difficult if are entirely different from the con- the textile industry in New England Comfortable homes, often ing element of the employes in see water and sewerage con- South Carolina mills joint with the nections, exist in our mill communi- management of the mills in urgin; the mill management is that we be left to conduct our busishould have an opportunity to earn ties, yet, the mill management is that we be left to conduct our busing a sufficient sum to avoid suffering alive to the comfort of the employeness without further restrictions, and to enjoy many of their uxuries and a distinct disposition is evident and that sentiment be changed so as and that sentiment be changed so as to improve the class of homes in the to secure a continued extension of the textile interests in the state, to "The transportation committee is the good of the state and all its per-Taxes are budensome, and someimes must be done or discuss that question other than to South Carolina will be compelled to suggest that the success of the in- sit idly by and see other states forg. dustry depends to a great extent on ahead because industries are given effective and reasonably cheap more considerate treatment. It transportation of that which we must not be understood that the buy and sell. As an industry we textile interests are opposed to an educational system, or to a good roads movement or to amply carin: for its unfortunates, for we are sincere and earnest in our support of We do, however, urge that business one with the other, and to economy that will not interfere with prevent the American people from efficiency be practiced and that we be not called upon to carry such an

"There has developed a sentiment among a class, and certainly among children. We urge the adoption of the ignorant class, and certainty among a policy that is broad in its every nistic to corporate wealth. They who aspect, fair in its treatment of both are ignorantly opposed to corporacapital and labor, non-partisan in tions are unable to justify their opits administration, to the end that position, and are not in condition to realize the lamentable condition in which our state would find itself if "The question of power, whether the corporations, viz: the railroads, electrical or steam driven, is of par- the cotton mills, and other corporate organizations were removed from the state and welcomed, as they would be, in sister states. It is a reflection on the intelligence of a people to antagonize and seriously in-jre, if not destroy, an industry that furnishes honorable and lucrative ant experience of having contracts employment to 15 per cent of the made in good faith ignored, and ex- white population of the state, pays orbitant prices for coal charged to its full share for the education of mills who had to "stand and de- the youth of the state, and the upliver," or else close their plants, and building of the highways of the leave without employment and the state, and in every way adds its full means of earning a living large numquota to the wealth and happiness their energies, whenever possible bers of industrious men and women of all the people of the state



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of the Textile Division, in a cablegram to the Bureau of Foreign and Domestic Commerce, made public here, declares that with the possible exception of England, workers in mills throughout Europe are turning out less per unit than in pre-war days. Mr. Pickard points out that labor is at present reduced to an eight-hour day and is "independent." While mills abroad are producing slightly finer counts and weaves, he emphasizes the fact that in light of the ever-changing conditions, European cotton consumption will continue for some time below pre-war averages.

"The immediate outlook of the German cotton manufacturing in-dustry," the cablegram declares, "is not promising, and although some mills are booked with orders until the end of the year, many others have raw cotton on hand for only five or six weeks. German export prices, adjusted semi-officially to a European competitive level, together with the inability of manufacturers to quote firm prices, assure stipulated delivery, and maintain qual-

Orders Unsatisfactory.

"New domestic and export orders are unsatisfactory, and there is insufficient operating capital to run mills economically as the result of depreciated currency, making purchases of raw material difficult. This will soon cause many mills to curtail to part time operation. The popular impulse to exchange depreiated marks for staple commodities is sustaining the German cotton industry, but at present partial fail-ure of domestic purchasing power to reach new price levels is materially affecting production. It is reported that neighboring continental countries are taking advantage of the low price paid German labor by supplying German mills with yarn and gray cloth and having them reship the finished product. sult, imports of yarn and cloths are greatly exceeding exports. The re-cent Leipzig Fair revealed that sellers were hesitant to quote and buyers to accept prices for future delivery, but despite this the small available stocks of cotton goods was readily sold. Stocks of raw cotton at Bremen are much lower than those of a year ago, cotton afloat on September 9 being only 20 per cent of that afloat last year. Bremen, it is estimated, handled about 1,500,000 bales during the year ending July 31, more than half of which was trans-shipped to other European countries

rially improved of late. Vacation ations. of raw material, has recently caused an unusually dull situation in Lan-cashire. Yarn prices have followed Pessimism continues to exist. Weav- ning on goods which are sold either

uneasy, as foreign movements are much retarded. Spinning is in Washington.—E. T. Pickard, chief worse condition than than weaving and many spinners are taking business at a loss rather than down. On account of the unsatisfactory situation of spinners using American cotton, a proposal Ilis come forth to revive cotton contro such as was exercised during the war, whereby production is limited to the interests of the wholet rade and concerns which are either temporarily stopped or injured by the control compensation. A persistent feeling prevails, however, that this proposal will not be adopted as the trade prefers to rely on improved foreign demand and on a gradual reduction in costs of production Export orders are not large, but Indian buying is improving.

"The textile industries of France are working full time and there is apparently no lessening in the de-mand for their product. In all sections, but especially among the spinners and weavers, there is optimism Spinners are booked for two to four months in advance and have covered their raw cotton obligations while weavers wil be busy until January. While the French indusity, are likely to preclude Germany try is prosperous and working full as a factor in the world's textile time, this prosperity has been conmarkets for some time. summated mainly by reduced production resulting from shorter hours Wages of operatives are of labor. stil more than 400 per cent above pre-war level but have brought about a higher standard of living and this has caused a demand for

goods of finer weaves.

Swiss Industries Cautious. "The swiss textile industries are cautious and although the majority of cotton spinning and weaving mills in Switzerland are now work-ing on orders which will carry them through October, November and December, opinion is rife that duller times are forthcoming. Much cotton is being imported by Swiss merchants from America via Antwerp. and there is a substantial export trade in cotton yarn with Germany while good qualities of finer yarn 60s-200s, are coming from England The Swiss market for fine cotton goods is very active at present, large quantities of gray goods is very active at present, large quantities of gray goods arriving from England to be finished.

"Italian cotton mills have orders for several months ahead. There is a fairly steady hand to mouth business for domestic consumption, and while exports are below pre-war, activity exists for foreign shipment Production is below pre-war for several reasons: hours of labor have ben reduced from ten and eleven to eight; domestic consumption is running to finer counts; exports, "Movements in the cotton textile fallen off; and the draughts of last rially improved of late." Weaving mills were generperiods, combined with falling prices ally willing, up to a short time to obligate themselves for ago, month or two ahead notwithstanding uncertainty in the world cotton cotton with cuts of one-quarter situation, but now they are exhibitpence to one-half pence per pound ing narrow commitments and conbeing made. British spinners are ducting their operations more on a
particularly slow in filling orders in basis of short time delivery. In
the section using American cotton staple commodities mills are run-







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THURSDAY, OCTOBER 26, 1922.

Meeting of Southern Textile Association.

The surprising features of the meeting of the Southern Textile Association at Greenville, S. C., last Friday and Saturday were the unexpectedly large attendance at the Friday afternoon session and the small attendance at the Friday night banquet.

The first session was called to order by President John W. Clark at 2:30 p. m., in Cleveland Hall, with every seat taken, and as more men arrived additional seats had to be brought in.

As the mayor of Greenville did not appear to deliver the address of welcome, J. S. Stroud was not able to deliver his response, but we are publishing elsewhere the one he intended to make.

President Clark did not make any set address but spoke briefly of the work of the Asociation.

W. H. Gibson, Jr., chairman of the Weavers' Division made a report of the recent meeting of his division at Anderson, S. C.

W. H. Moseley made a report for the Committee on Cloth Standards His report was received as information and action deferred until the at 10 o'clock in the Opera House. next meeting.

the program for the discussion of Goods." inventions and improvements the following took part in that portion followed with a talk on "The Reof the program:

J. S. Stroud, of Cooleemee, N. C., ter Goods." described an attachment made by a young man in his mill by which practical manner his subject, "The spinning ring rails are automatically Relation of the Weave Room to Bet- fair-minded man will admit that it stopped and wound down.

cotton to lappers.

C. L. Upchurch, of Athens, Ga. exhibited a machine for splicing tire fabric yarn.

T. A. Sizemore, told of several inventions at the American Spinning Company, including a split hub for loom pulleys.

The Banquet.

The Southern Textile Association banquet was held at 6:30 Friday Dear Sir: night at the Episcopal Church Parish House with about two hundred present.

David Clark acted as toast master while L. P. Hollis was very effective as a song leader.

F. Gordon Cobb and H. H. Boyd president, John W. Clark, president: J. A. Chapman, Jr., vice-president: A. B. Carter, secretary, and T. A. Sizemore, treasurer, was introduced and made brief talks.

G. F. Escott was introduced as one of the organizers of the Southern Textile Association.

Dr. D. W. Daniels, of Clemson College, S. C., pleased his audience we are afraid that the people of with one of his humorous lectures

Saturday Morning.

The Saturday morning or "Better Goods" session was called to order tion to the following facts.

at 10 o'clock in the Opera House. The laws of South Carolina have

L. L. Brown, of Clifton, made a very practical talk upon "The Re-An hour having been set aside as lation of the Lapper Room to Better

J. B. Harris, of Greenwood, S. C., force.

W. B. Williams handled in a very regularly. ter Goods."

W. W. Cobb, of Catechee, S. C. A discussion followed, the leaders W. P. Lester, T. N. Crocker, H. H. which they do not.

Boyd, J. B. Harris, L. S. Cannon and C. C. Brigman.

trated by a black board talk upon created. the subject, "The Relation of the Cloth Room to Better Goods." He outlined the position of the cloth room man and received many congratulations upon the manner in which he handled his subject.

The meeting voted to lease the was expressed.

The thanks of the members of the Southern Textile Association are due Luther M. McBee, Jr., for the day and Saturday was very large, work he did in making arrangements but the large attendance of the mill for the meeting of the Association and for the banquet. Being the only Greenville man on the arrangement committee Mr. McBee had make all the arrangements, but did was far less than expected. so in a very efficient manner in spite of the large amount of work well pleased with the total attendrequired.

A Letter to Maine.

Charlotte, N. C.

Editor The Evening Express and Advertiser

Portland, Maine.

A friend has forwarded us a copy of a recent issue of your paper containing a story relative to a young man from South Carolina who, accompanied by two negroes and riding in a rattle-trap car, stopper for a while in your city.

We have no interest in the story other than the last paragraph which

was as follows:

"Textile operatives of the Northern state made a very favorable impresson on the South Carolinian 'They look fresh,' he said, 'but down our way they start work in the mills when they are eight or nine years old, and a few years later they are all bent over and look like old men.

Knowing your targe circulation your section would accept as true the statement, believing that it was made by a man familiar with conditions but we wish to call their atten-

for a number of years prohibited the employment of children of less than 14 years, in factories and the State has a rigid system of inspection to see that the law was in

Under these circumstances any would be impossible for South Carolina cotton mills to employ child-

The tourist who was in your

C. Brigman.

H. W. Moseley, of Greenville, S. C.,

We believe that you will not object to publishing this letter to made a very interesting talk illus- counteract the impression that he

Yours very truly, Southern Textile Bulletin

The Exposition.

Having published in our last issue a description of the exhibits in the Southern Textile Exposition and to the officers the selection of the having published in advance a list of those who expected to attend, next place of meeting but a consid- there remains little to be said about erable sentiment for Augusta, Ga., the Exposition except that it was a distinct success.

The Fifth Southern Textile Expo-Luther McBee Made Arrangements sition was better arranged than any for Meetings. of the others and the exhibits were uniformly good although there were very few new things shown.

The attendance on Thursday, Fripresidents and treasurers which was expected on Monday, Tuesday and Wednesday failed to materialize, and the total attendance of mill officials

The exhibitors were. however ance and many of them reported considerable business transacted.

The Southern Textile Bulletin Booth was very fortunately located and we were favored by a very large registration of mill men.

Every few hours a bulletin was sent out from our booth giving the names of the mill men present and that service was greatly appreciated by the exhibitors.

We have applied for the same space in the 1924 Exposition and we learned that a great many exhibitors also filed application for space.

The textile machinery and supply men of Greenville were on the joh every minute and did their utmost for the visitors and to make the Exposition a success

Our Pure Corn Likker Editorial.

While at the Southern Textile Exposition we heard numerous comments upon our recent editorial on "Pure Corn Likker," in fact, it seemed to be one of the features of the Exposition.

Hundreds of mill men and machinery men commended it, while a few those who had anticipated filling their prospective customers with corn liquor, made caustic comments upon our exposure of the filthy manufacture of their beverage.

We are informed that the representative of one of our New England competitors ran around showing the editorial to everyone as "the only kind of stuff Dave Clark can write," but we have no apology to make to anyone.

We have no objection to his effollowed with a talk on "The Relation of the Spinning room to Better Goods."

For three years prior to May, forts to carry favor with the "liquor hounds" for we know that an overwas in force and their inspectors whelming majority not only of the also visited the South Carolina mills mill men but the machinery and supply men stand with us on that proposition.

We are advocates of decency and soberness at the meetings of the Southern Textile Association and as W. W. Cobb, of Catechee, S. C. A discussion followed, the leaders ren of eight or nine years of age, usual we expressed our views withtold of his system of distributing being J. V. McCombs, L. E. Wofford, even if they desired to employ them out expecting them to please every-

Personal News

William Christian has resigned as North Charlotte. superintendent of Appalachian mills Knoxville, Tenn.

- position as overseer carding at night at the Avon Mills of Gastonia, N. C.
- J. R. Ogburn has become overseen of carding and spinning at the Beaver Cotton Mills, Thomson, Ga.
- W. E. Hammond has resigned as superintendent of the Mills Mill, Greenville, S. C.
- ing at night at the Grace Mills, Rutherfordton, N. G.
- J. W. Sisk is now night assistant superintendent of the Grace Mills,
- Macon, Ga.

Cotton Mills.

Edward Swords has has returned to his former position as overseer spinning Adams Mill, Macon, Ga.

Charles L. Hammock, superintendent Walton Mill, Monroe, Ga., died on October 16 and was buried in Griffin, Ga.

Cameron Lanier has been appointed superintendent of Piedmont Cotton Mills and Egan Yarn Mills Egan, Ga.

- D. S. Sanders, of Patterson, N. C., has been promoted to night overseer winding at the Grace Mills, Rutherfordton, N. C.
- Winnsboro, S. C.
- erfordton, N. C.
- B. B. Gossett has resigned as president of the Panola Mills, Greenwood, S. C., in order to devote more time to his other mill interests.
- J. P. Abney, president of the Grendel Mills, Greenwood, S. C., has also been elected president of the Panola Mills, of the same place.
- C. W. Parrott, of the P. H. Hanes Knitting Co., Winston-Salem, N. C., has accepted the position of over-seer of carding and spinning and assistant superintendent at the Arcadia Mills, Arcadia, S. C.

Steve M. Crolley from Winnsboro. S. C., has returned to his former position as second hand in spooling and warping room of the Darling-ton Manufacturing Company, Dar lington, S. C.

- J. M. Kelly, of Ozark, Ala., has become overseer carding at the Lauderdale Mills, Meridan, Miss.

 William Christian has resigned as:

 J. F. Devinney, of the Savona dills, Charlotte, N. C., has become assistant overseer carding at the Johnston Manufacturing Company,
 - P. McGarrity has resigned as over-F. Ferguson has resigned his Arcadia Mills, Arcadia, S. C., to betion as overseer carding at night he Avon Mills of Gastonia, N. C. Mills, Greenville, S. C.
 - M. E. Powell has resigned as second hand in weaving at the Miller Cotton Mills, Waco, Texas to become overseer weaving at the Brazos Valley Mills, West, Texas.
 - reenville, S. C.

 R. A. Whatley has resigned as
 C. W. Walls is now overseer card-superintendent of the LaFayette
 or at night at the Grace Mills. Cotton Mills, LaFayette, Ga., after having held that position for 11
- J. W. Sisk is now night assistant superintendent of the Grace Mills, Rutherfordton, N. C.

 J. C. Pressley has been appointed South Carolina territory for the U. S. Oil & Supply Company, Proverseer carding at Adams Mills, vidence, R. I.
- Robert A. Whaltey has resigned as Greenwood Cotton Mills, Greenwood superintendent of Lafayette (Ga.) S. C., has been elected vice-preesident and a member of the board of directors of the Ninety-Six Cotton
 - E. L. Sord has resigned as overseer spinning at night for the Union Mills of the Consolidated Textile Corporation of Lafayette, Ga., to become overseer of spinning for the Adams Mill, of Macon, Ga.
 - A. B. Brown has resigned his position as general second hand in carding at the Mason Mills, Kings Mountain, N. C., and has accepted position as overseer carding at night at the Avon Mills, Gastonia, N. C.

The many friends of L. L. Hurley. O. L. Derick, of Atlanta, has accepted the position of overseer No rooga, Tenn., will learn with much spinning at the Winnsboro Mills occurred recently at their home in G. A. Pope has been promoted to formerly lived in North Carolina overseer spinning from overseer of and both had wide acquaintance winding at the Grace Mills, Ruth- among the mills in this section.

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The Dana S. Courtney Co. Chicopee, Mass.

Southern Agt, A. B. CARTER, Gastonia, N. C.

MILL NEWS ITEMS OF INTEREST

industrial commissioner of the local chamber of commerce, announces that a cotton mill to manufacture coarse fabrics may be established

broker and a manufacturer from office, for the inspection of stock-South Carolina are to visit Fort holders. The supreme court issued Worth soon to investigate to prop- an opinion refusing to reverse the osition.

Union, S. C .- Directors of Union al. Buafflo Mills Company, at a meet-some of the records referred to were States on a commission basis. first preferred stock of the company the regular semi-annual dividend of 3 1-2 per cent, payable November 13, to stockholders of record of November 8, and also declared on the second prefered stock to stockholders of record on same date a dividend of 35 per cent, on account of accumulated or cumulative divi-dends, also payable November 15.

Danville, Va .- That the Dan River and Riverside cotton mills are using forty and fifty million pounds of raw cotton every year is the state-ment made here by H. R. Fitzgerald, president of the local organization replying to a speech made at a

Industrious

Cleanser

Athens, Ga.—Fire which was dis-meeting of the Rotary club by M. in New York. These must be recovered at the Maillison Braided O. Nelson who expressed the belief turned to the mill office, it was or-president of Grendel mills was elect Cord Mills here late Saturday after- that Danville will sell between forty dered.

Cotton Mills in Aiken, county lost their fight in the supreme court of South Carolina against an order of stock, no par value. Circuit Judge Hayne F. Rise, directing them to place all their records here in the near future. I ing them to place all their records He says a Philadelphia cotton and correspondence at the Langley order of Judge Rice, which was issued upon request of J. C. Self, et. stockholders, who alleged that

par value, redeemable in five years at \$120 and 2,500 shares of common

The directors have adopted two new policies. One is equipping all branch stores with ready-made suits and overcoats, which are to be made in the factory of the company durin the factory of the company day ing dull seasons and to be market- sett, the mill has shown a pront ed at the same price as tailor-made and he leaves it in excellent conditions. The other is to establish tion. The directors formally thankgarments. The other is to establish tion. The directors forma roadmen throughout the United ed him for his services.

ed president and treasurer of Panola Cotton mill to succeed B. B. Gosnoon resulting in a \$150,000 loss and fifty million pounds of tobacco
Two buildings were completely destroyed. L. F. Edwards, president, were the first given publicity showand Julian S. Goetchius, secretary ing the great increase in the organdeclared the plant will be rebuilt ization's capacity in the past few
on more modern lines immediately years.

Fort Worth, Texas.—Roscoe Ady,
Columbia, S. C.—The Langley

Columbia, S. C.—The Langley

Fort Worth, Texas.—Roscoe Ady,
Columbi Since moving to Charlotte to take the presidency of the Chadwick-Hoskins mills, he has requested that he be relieved of the management of the local mill, it was stat-

> Under the direction of Mr. Gosresigned as a director and was succeeded by H. T. Crigler, of Greenville. The following now compose the board of directors; J. P. Abney H. T. Crigler, W. S. Manning, Spartanburg; J. S. Turner, New York; C. D. W. Halsey, New York.

> Altavista, Va.-Decision to double the capacity of the Altavista Cotton Mills, of Altavista, Ca., at the cost of approximately \$400,000 was reached at a meeting of the stockholders held here, it was announced by C. Ashemore, assistant general super-intendent of the mills.

> Additional stock to the amount of \$300,000 common and \$100,000 preferred will be issued by the mills making the capital stock of \$500,000 and \$250,000 preferred, according to Mr. Ashemore. None of the additional stock will be placed on mar-None of the addiket, however, it being understood that the present stockholders will purchase the entire issue.

> The mill will be doubled in every department and 35 new houses built on the property, Mr. Ashemore said. This expansion will entail the installation of 300 additional looms and proportionate increases

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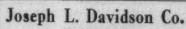


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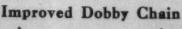
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fact that it is one of the manufacturing plants in the south which turns out an exceedingly fine construction of goods.

Double Capacity Franklin Process any other country.

work has commenced on the construction of a new dyeing house at the plant of the Southern Franklin Process Company, near Greenville, activity. which, when completed and equipped will double the capacity of the dyeing plant of this company. The improvements will cost approximately \$50,000. The contract for the construction has been awarded to the J. F. Gallivan Building Com-

pany, of this city.

The Franklin Company has been operating here for only about ten months, and the large increase in business is gratifying to officials and stockholders of the company.

Development of Cotton Manufacturin the South.

The remarkable development of the cotton mill business in the South ally is indicated in the monthly emduring the past few years is one of ployment survey made public by the most outstanding achievements of the present generation. The Manufacturers' Record gives those facts.

The South now has \$350,000,000

invested in cotton mills, which con-

sumed last year 3,733,000 bales as ment in the percentages indicated: compared with 2,178,000 bales for the rest of the country.

The development of this industry from 180 mills in 1880 with £21,976,-000 capital to 970 mills with \$850,-000,000 capital at present, is one of

the romances of American industry.
The Southern cotton mill has been a great missionary to the operatives, who before the coming of the mills were without employment. These mills have created profitable employment; they have inspired with new life not only operatives but millions of others. In propor-tion to the wealth and newness of this industry they have done more for the educational, religious and moral advangement of their employes than any other great industry in this or any other country They have built splendid schools often operated wholly at the expense of the mills; and great Y. M. C. A. and Y. W. C. A. buildings; they have laid out attractive towns and built dwellings equipped with all modern improvements and rented them at nominal cost.

mous gradual expansion of the cot. The report made public today ton mill industry in the South and gives figures, for the first time in the Southern Textile Exposition several months, for the woolen in-which opens in Greenville, S. C., dustry. At one time the bureau was will help to concentrate the thought forced to discontinue reporting this potential of America, but of other industry, because of the fact that not only of America but of other countries upon the achievements which have been made and of the certainty that this section is pre-destined as the cotton manufacturing center of the world.

Washington,-Increased employment in the textile industries generployment survey made public by the Bureau of Labor Statistics, U. S. Department of Labor. Among the 42 industries surveyed for September compared with August the following showed increases of employ-

initiative and self-reliance and abil-millinery and lace goods, 49 per ity to do expert work which makes cent; shirts and collars, 1 per cent; them pre-eminently today the great-silk, less than one-tenth of 1 per est potential power for cotton mili cent; woolen, 11 per cent, and caradvancement to be found in this or pets, .7 per cent.

The only textile industry showing Company.

Following the cotton mills will a decrease in employment was the come textile machinery plants and hosiery and knit goods, for which green in the demand for which inevitably develop around in employment of 3.2 per cent. The the dyeing of cotton goods here, this great industry when once firmly men's clothing industry for which work has commenced on the consecutive as the cotton industry 402 establishments, reported in established, as the cotton industry 102 establishments reported in-now is in the South, and this will creased employment from 37,132 to now is in the South, and this will creased employment from 37,152 to spread to every other line of human 37.143. At the same time total pay- knit goods, 2.4 per cent; sha, 150 per cent, and woolen, 14.6 per cent.

Total payrolls by the same comparison decreased parison decreased 21.9 per cent in cotal payrolls.

dustry. At one time the bureau was forced to discontinue reporting this industry because of the fact that the American Woolen Company dis-continued sending data to Washington. Eighty establishments are reported for the woolen industry, employing 41,588 workers for Spetember, an increase of 11 per cent. The total payroll was \$906,616, which was an increase of 11.4 per cent com-pared with August. It is understood the figures obtained were through the cooperation of the Masachusetts State Board of Statistics.

Wage changes in the textile in-dustries are indicated in the fol-lowing comparison of per capita earnings in September last with those in August:

Carpets, 5.1 per cent increase; cotton finishing, 3.8 per cent increase; millinery and lace goods, 2.5 per

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IN TEXTILE MILLS AND VILLAGES

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in the carding and spinning rooms. The operatives in these mills are clothing, less than one-tenth of 1 cent increase; cotton manufacturaccording to the plans.

Particular interest is attracted by purest Anglo-Saxon stock in the cent; cotton finishing, 11.2 per cent; 5 per cent increase; woolens, the announcement in view of the world. They have developed an cotton manufacturing, 5.3 per cent; crease of less than one-tenth of 1 crease of less than one-tenth of 1 per cent; women's clothing, .9 per cent decrease, silk, 1.2 per cent decrease; men's clothing, 1.7 per cent decrease; hosiery and knit goods 1.8 per cent decrease; shirts and collars, 2.4 per cent decrease.

Compared with September, 121 employment in the textile lines greatly decreased in September last, ercentage drops being as follows: Men's clothing, 14.3 per cent; cotton finishing, 4.1 per cent; cotton manufacturing, 16.7 per cent; hosiery and knit goods, 2.4 per cent; silk, 15.6

men's clothing; 8.4 per cent in cotton finishing; 18.4 per cent in cotton manufacturing; 1.9 per cent in hosiery and knit goods; 20.7 per cent in silk, and 7.4 per cent in woolens.

Report of Committee on Cloth Standards.

Greenville, S. C.,

To the Officers and Members, Southern Textile Association:

At a meeting of the Weavers' Section, held at Anderson, S. C., the Chairman, Mr. W. H. Gibson, Jr., appointed this committee, consist-ing of H. W. Moseley, Chairman, Greenville, S. C.; Mr. H. H. Boyd, of Charlotte, N. C., and Mr. J. M. Alexander, of Newry, S. C., for the purpose of determining what constitutes a legal piece of cloth, as to number of ends in warr.

number of ends in warp.

This committee met at Greenville.
S. C., September 16, 1922, and after a full discussion, we beg to offer the

following:
"This committee recommends that the number of ends per inch times the width in inches of a piece of cloth of a given construction be a legal piece of cloth."

Mr. W. H. Gibson, Jr., met with this committee, and this committee wishes to thank him for his interest

This committee respectfully asks that you allow them to make the fol-lowing recommendations:

That the President appoint a committee to recommend a standard as to variations in width.

That the Association elect a recording secretary for the purpose of collecting and preserving the records of the Association.

Respectfully submitted,

(Signed) H. W. MOSELEY, Chm., H. H. BOYD, J. H. ALEXANDER.

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the room from outside)
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The Strength of Cotton.

Cotton Manufacturers.)

The study of textile manufacturknow what happens to cotton during manufacturing, and to be able to follow the change in physical prop-

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Your Mill Supply House will furnish

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the factory.

The Strength of Cotton.

erties with each machine, and to from the uncertainties of calculat- such as is used for testing single know more about the properties of ing the number of fibres in a cross yarns, and it is operated in the same (By E. Dean Walen, Cotton Research cotton which are of greatest imporsection. If cotton fibres were unimanner. Co., before National Association of tance. In this connection it is difficult to duplicate the human senses and to find mechanical means which ing leads ultimately to a desire to will judge cotton as quickly and as accurately as can be done by a cotton classer. It is, however, desirable to reduce classing to a mechanical certainty in order that we may all understand each other in dis-cussing experimental work and in order that we may be assured that our machinery is best treating cotton presented to it.

This discussion in no way is intended to treat exhaustively of cotton, but merely to present for your consideration some progress which have been made along these lines.

One of the important properties of cotton is strength, for it not only has a bearing upon production, but in many cases determines the value a material. When the strength of cotton is considered it is usually not thought of in terms of individual fibres, but more particularly as a group of fibres resisting certain mechanical forces such as are present in the manufacturing and in the use of the material. The determination of the strength of individual fibres is tedious, difficult and the time necessary to make a sufficient number of breaks, together with the uncertainty of attempting to predict the number in a cross section, is so great that it seems hardly desirable to use such a method.

The products of textile machinery are known in terms of hanks, yarn numbers, etc., which are based upon the weight of a unit length of the product. If, therefore, a method of testing the strength of fibres could be devised which used a certain weight of fibres of a known length the result could then be expressed in terms of yarn number or hanks such a method would automatically assign the proper number of fibres men. in proportion to any one yarn or The testing machine is the con-sliver and the answer would be free ventional type of inclination balance

section. If cotton fibres were uniform in their shape or cross section and in density, the calculations would have some degree of accura method which is easy to perform and which tests enough fibres to assure a reasonable accurate determi-

After some considerable experimental work the following method the rate of 12 inches per minute was devised:

ordinary pull of cotton, such as a weight of five individual bundles is classer would take, and working it back and forth to obtain an untangling of fibres. The short fibres are of the strengths is divided by the then brushed out. The brushing sum of the weights, which reduces operation accomplishes the purpose the figures to the strength of a also of straightening the fibres. The atmosphere and the cotton should and weighing 1 gram, which is then be quite moist during this operation readily corrected to a yarn number The bundles are then cut to length of seven-eighths of an inch, which gives ample assurance that the fibres are of the same length and that the body of the cotton is tested. In inch it is necessary to use a shorter length of cut.

At this point the bundles are allowed to condition in a constant atmosphere, and are then weighed in groups of five or ten, depending upon the number made for each samof cotton.

These samples would be difficult to place in the jaws of a testing machine, and to overcome this ends of the bundles are smoothed out and cemented with collodion on a piece of paper. This makes it con-venient to handle and to expose the samples before testing. The paper strip is then cut parallel to the test specimen and the specimens clamped in the jaws of the testing machine, and the paper is again cut, this time perpendicular to the speci-

manner.

Many of the fibres break near the jaw, which may be natural, due to the fact that the fibres are not of It is also desirable to obtain uniform section but are tapered and there is no reason to expect the fibres to break at the center.

The testing machine has a capacity of ten pounds, and is operated with the lower clamp traveling at as devised:

The initial distance between jaws
The method consists of taking an is one-half inch. The average
dinary pull of cotton, such as a weight of five individual bundles is

> group group of fibres 7-8 inch long or a figure which is the equivalent.

The previous work on cotton strengths impresses one with the fact that the longer cottons are the body of the cotton is tested. In finer, and weaker, but there are the case of cotton shorter than one more in a cross section and hence

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this method of testing the longer cottons are stronger, or an equivalent weight is stronger.

It is interesting to know something of the influence of the cotton strength upon the strength of a yarn having the same manufacturing operations and the same twist. No doubt it would be more interesting to know the effect with varying twists, but presumably such will be the case at some later date.

A series of tests was made in spinning a 28.5 yarn from several andria, October 9.) lengths of cotton. The yarn strengths were determined with a moscrop tester and represent the average single end break. care was taken to obtain constant humidity conditions throughout the manufacturing test and breaking tests. The moscrop is not generally well thought of, but we have found it a good machine, providing it is far the largest, is the main class well taken care of, and it is pos- of natives who prefer color, plenty sible to make a great many deter-

The tests appear to indicate that the lengths in themselves have no material influence upon the strength except in a very general way, but that the yarn strength is directly dependent upon the cotton strength The average values appear to be consistent, but the individual results show the influence of other factors and especially around the lower cot- American Cotton Goods in Ceylon. ton strengths which produce yarns stronger than the original cotton. This is comparatively easy to ac-count for, but is very difficult to predict, and will be partly discussed under the influence of processes. It is probable that the difference in the test methods used in testing cot-

Mills and the Climax Spinning Company, the affairs of both companies were shown to be in excellent condition and dividends of 10 per cent were declared upon the stock of both mills.

the yarn strength is greater. With September Egyptian Cotton Trade. Indian Demand for American Gray

September exports of Egyptian cotton were 24,000,000 pounds. Imcotton were 24,000,000 pounds. Imports totaled 26,000,000 pounds and on September 30. ds. The harvesting on hand 135,000,000 pounds. of the Egyptian crop is proceeding rapidly, ginning is in progress, and shipments are already arriving in Alexandria. In Lower Egypt both the total yield and yield per acre are below average. In Upper Egypt the total crop is below average. (Cable from Consul Lester Maynard, Alex-

Arabian Market for American Webbed Belts.

A demand exists in Arabia for American webbed belts. ket for these belts may be divided into two classes. The first, and by far the largest, is the main class of shiny metal, and pockets attached minations in a comparatively short to the belt. The second class contime. ernment offices; they prefer a white or black article with a detachable and easily polished buckle and one which has no pockets. [A list of which has no pockets. [A list of Aden merchants interested in belts may be obtained from the Textile Division.] (Consul Raymond Davis. Aden, September 13.)

Efforts made toward extending American cotton goods in Cevlon should prove profitable, according to Consul Marshall M. Vance, Co-American manufacturers lombo. have never succeeded in capturing a large share of the Ceylon cottonton and yarn may account for some goods, market, and the percentage of the difference. Geylon from America since the war is less than it was before. Most of the imports Belmont, N. C .- At the meeting of are gray piece goods, though smaller stockholders of the Majestic amounts of bleached and dyed piece goods are also imported from American sources. In 1921, out of a tota. Ceylon cotton-goods, import trade of 25,000,000 rupees, American ex-porters supplied 280,000 rupees' worth.

There is at present a demand for American gray shirtings in Madras The cloth is used for local dyeing and should run 37 to 37 1-2 yards to the piece, 45 inches wide, and should a stripe heading of an attrac-type. These pieces go to the tive type. These pieces go to the dyer and reappear as saris and dhooties for native dress. The sari is the women's costume and consists of one piece 8 yards in length 40 to 45 inches in width. Dhooties are worn by the men as : shirt and come in pairs of 3-yard pieces 45 inches wide. (Vice Consul H. A. Doolittle, Madras, August

Sulphur Fast Olive Green.

H. A. Metz and Company announce that they have placed on the market a new Sulphur Green, which is known to the trade as Sulphur Fast

This is one of the fastest Sulphur Green, to light and washing, that has yet been produced in this country, and on after-treatment with Chrome and Copper, which slightly changes the shade, makes it tremely fast to light and washing.

The dye is soluble, and for this reason it can be used on any kind of machine.

Dyeings, product samples, and quotations will gladly be furnished from any of their offices, upon re-

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Also Spinning, Spooling and Twisting Bands When ordering card bands state make of card and size With this information we guarantee correct fit. both diameter and length, of any band for any make of

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Loom Harness and Reeds Slasher and Striking Combs Warps and Leice Reeds, Beamer and Dresser Hecks, Mending Eyes, Jacquard

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Manufacturers of Spools of Every Description Speeders, Skewers, Warp and Filling Bobbins, Twister Bobbins, Northrop Loom Bobbins

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Saddles, the latest invention in Saddles for Top Rolls of Spinning Machines. Manufacturers of all kinds of Saddles, Stirrups and Levers.

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THE GREATEST IMPROVEMENT MADE IN COT-TON SPINNING IN QUARTER OF A CENTURY

The Richards-Hinds Light Running Rolls

Over 1,700,000 Spindles Equipped to Date

Guaranteed Claims

Cockiey Yarn Preventor Extra Strength of Yarn

Less Change of Roll Settings Reduced Cost of Spinning One-third Saved on Leather Covered Rolls

Less Waste Greater Production

All machine builders are agents and will quote prices for new work. Also for prices and particulars write to

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The Metallic Drawing Roll Company Indian Orchard, Mass.

Invention and the Cotton Industry.

(Continued from Page 12.) I should like to direct your attention to that field of endeavor which today perhaps opens up the largest possibility of improvement in machinery— i. e. the introduction electric drive and its application to textile machines.

I do not think we appreciate the debt which the textile industry owes to the development of electric power. The modern mill with its unit arrangement of motors would not be possible under the old shaft drive conditions. It was one of our own members, Mr. Sidney B. Paine, of the General Electric Company who first arranged for the introduction of motors in a textile mill, electrifying the Columbia Mills Company

In this connection it may be interesting to know that the average capacity of motors operating in textile mills of this country today approximates 1,750,000 hore power.

The application of electric power to the cotton mill has so far taken the direction of arranging for more simple and convenient drive to existing machines. Today the mill can be placed in the most favorable spot, irrespective of power conditions. The South particularly, I think, owes a great debt to the electric motor, owing to the very unsatisfactory character of the water in a great many Southern streams for power purposes, and undoubtedthe growth of the South would not have been so fast had it not been for the barnessing of its rivers the large power developments.

Power Factor Determines Design.

The thought I should like to leave with you, however, is that even though we may not be able to discover some new principles for the manipuation of cotton fibre may we not look for a change in design of machines whereby the machine will be built around the power factor rather than the power factor around the machine? The variable speed motor which the makers have been testing out for a number of years I believe is about ready, and so one might go on in detail. We are living in the age of invention. The last few years, which have seen the wireless telephone and telegraph radio communication, airplanes, and do so. what not, have prepared us to expect almost the incredible in inven- us that it is proper and right for us tion, and it may be that in this most to quit branding goods in this way conservative industry the next few and we shall be glad to cooperate years may find new principles which with any jobber in selecting suit-wil vitally change our methods of able words to use in place of these manufacture, and while we doubt it, words, 'Fine Sea Island.'"—Daily it may yet be possible to feed the News Record. cotton at one end of the machine and cart away cloth at the other.

Future of Cotton Manufacture

ting the beat up.

demonstrated the saving in inventory, the decrease of labor, and the increase in production possible with this system.

Just imagine the savings to be made in cotton goods manufacturing by employing the abbreviated process described above and the mechanical handling which has already been demonstrated.

There is plenty of chance for progress in textile machinery development, and anyone interested in the problem must not be discouraged by the idea that it was highly developed one hundred years ago and little progress has been made in the last fifty years.

Discourage "Sea Island" Brands.

Converse & Company have recent-Columbia, South Carolina, in ly sent out a letter to the trade, discouraging the use of the branding of brown sheetings with land" when there was absolutely no Sea Island cotton contained in the goods. The letter reads:

"It has been the custom of a number of jobbers and some of our mills in the past to use a brand of Fine Sea Island on certain grades of brown sheeting. We feel that this is misleading, as it conveys the idea that the goods are made of Sea Island cotton when they are not. The Government has enacted stringnent laws on misbranding, and the Federal Trade Commission has gone after a number of concerns for misbranding their goods, and we are of the opinion that the custom of branding brown sheetings, "Fine Sea Island" should be discontinued, as it is only a question of time until those mills which are doing it will get into trouble.

"Several years ago we discontinueed the use of the branding 'Fine Sea Island' on all of our own brands, using in place of it simply the words 'Fine Sheeting' or 'Extra Fine Sheeting.' A few of our customers have however, continued to use the brand Fine Sea Island' on their own pribrands, and where they have asked us to make these goods for them we have hesitated to refuse to put the words 'Fine Sea Island' on the goods, because it has been a custom of such long standing. ever, our mills continue to press us to discontinue this practice, and we find it is going to be necessary to

'We believe you will agree with

Total Spindle Hours in September Show Decline.

(Continued from Page 13.) Washington.—A slight let-up in circular loom. It is simple to despinning activity was recorded dursign a circular loom which will put ing September, as compared with in 400 or 500 picks per minute. Apaugust, according to the Census parently the only problem is in getager and the beat up.

Washington.—A slight let-up in circular loom, and it is separated by the control of the control Take the matter of mechanical during September were 8,033,002,129, handling in a cotton mill. We have a decrease of 272,118,619 as comalready equipped three large mills pared with the August figures. throughout with this system. These Spindles in place showed an inhave practically been laboratories crease, as did the number of spindles for the development of mechanical operated at some time during the handling in cotton mills, and have month, but the average active hours per spindle in place decreased from The following is a brief summary 217 in August to 209 in September.

Based on an activity of 25½ days, log: allowance being made for the ob-LinkBelt Chains and Wheels (220 servance of Labor day in some localities, for 8.74 hours per day, the average number of spindles operated during September was 34,822,373, or

pared with 4.399,873,166, and 274 in August; in all other States, 3,422,-806,888, compared with 3,633,138,963 in August.

Active spindle hours for September by States follow: Alabama, 333.-072,512; Connecticut, 275,943 565; Georgia, 716,230,316; Maine, 206,997,188; Massachusetts, 1,952,731,052; New Hampshire, 87,401,552; New Jerger 77,492,804. sey, 11,432,691; New York, 226,344,551; ets, Wood Grapples, etc.; Electric North Carolina, 1,462,406,290; enn-sylvania, 27,844,445; Rhode Island, age; Car Pullers, Friction Hoists, 482,524,928; South Carolina, 1,411, Power Hoes, Power Shavels, 654,232; Tennessee, 107,780,542. 247,229,329.

New Link-Belt General Catalog.

The Link-Belt Company, of Chicago, Philadelphia and Indianapolis announces the completion of a new General Catalog No. 400 which embraces their entire line. It is the most complete book they have ever issued on this subject. It contains issued on this subject. It contains South African imports of Ameri-832 pages, is cloth bound and can cotton goods for the first six be obtained from any Link-Belt months of 1922 were satisfactory, Branch office.

pany

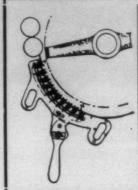
of the contents covered in the cata-

pages); Power Transmission chinery, Bearings, Hangers, Takeups. Gears (machine molded or cuttooth), Clutches, Pullevs, Sheaves: Elevator Booths, Buckets, Casings: at 93.9 per cent of capacity on a single shift basis, compared with 34,041,029, or 92.4 per cent, of capacity in August.

Active spindle hours in cotton growing States numbered 4,337,056, cor 270 per spindle in place, compared with 4,399,873,466, and 274 in Weight hours in Cotlon Conveyors; Feeders, Water Screens Crushers, Feeders, Water Screens Weighlarries, Skip Hoists; Coal Tipple Conveyors, Screens Eccen-trics, Picking Tables, Loading Booms; Coal Washeries, Jigs, Ele-vators, Driers; Coal Storage, Pock-ets. Tramways, Towers: Locomotive Coaling, Stations, Care Loades and Coaling Stations: Car Loaders and Unloaders, Portable Loaders, Portable Belt Conveyors; Locomotive and 654,232; Tennessee, 107,760,513; Vir- Haulage; Sand and Gravel Washing ginia, 145,290,306; all other States, Equipment, Revolving Screens, Sand Equipment, Revolving Screens, Sand Separators, etc.; Lime Handling Equipment; Foundry Conveyors, Sand Revivifiers; Elevators and Conveyors for Glass Plants, Canner-ies, Freight Hauling; Sugar Plantation and Refinery Machinery.

South African Cotton Goods Imports.

especially in piece goods, as the This catalog not only includes the quantities of this class equal the 1921 complete Link-Belt line, but also the total for the whole year. (Cable products of the H. W. Caldwell & from Trade Commissioner P. J. Son Company plant of that Com-Stevenson, Johannesburg, September 29.)



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Cotton Notes

Cotton Crop Be 9,354,443 Bales

Greenville, S. C .- The 1922 cotton erop in this section, in South Caroline and over the whole cotton belt, in fact, is going to be much shorter than government forecasts indicate. Long Rise Marks the Cotton Market. according to a statement issued by Cooper and Griffin, local cotton merwork of corespondents. is several hundred thousand bales under the latest government fore-

Carolina farmer, is going to bring a higher price.

Following is the estimate by states as compiled by Cooper and Griffin from figures furnished by their correspondents in every part of the

Bales
North Carolina
South Carolina
Jeorgia827,916
Alabama
Mississippi913,333
Louisiana341,666
Oklahoma
rennessee

Arkansas	860,714
Texas	
All others (estimated)	250,000

Total.....9,354,443

New Orleans.-A long rise marked chants who have made a survey of the cotton market last week, lowest the belt through their wide-spread prices coming in the first two seswhile highest prices were crop this year will run slightly over reached on the closing session. From 9,350,000 bales, according to the four points there was a rise to ad-Cooper and Griffin estimate, which declines under the close of the preceding week of fifteen to twenty-Naturally with less cotton pro- 157 points. After trading as low as duced over the belt the crop made 21.72, December rose to 22.00 by the Greenville county and for the county and the county are considered and the county and vances of 117 to 142 points over the duced over the belt the crop made 21.72, December rose to 23.22 and by the Greenville county and South closed at 23.17 cents. Spot prices gained 125 points on middling, which closed at 23 cents against 18.25 on the close last week a year ago.

The main reasons for the advance were to be found in the spot department where the demand con-stantly broadened while offerings preceptibly lessened, A deep im-pression was made early in the week by messages from points in Texas stating that in some cases, the en-tire day's offerings of spots consist-

ed of a single bale.

Later, Texas reports stated that
both foreign and domestic spot
houses had instructed their buyers



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to get cotton, regardless of the and ahead of the same time in 1919 price. On the closing session no by 1,355,000. little buying was aroused by the The amount brought into sight clain that farmers' marketing buduring the past week has been 541,-reaus were tying up from 25.000 to 409 against 465,443 for the seven days 30,000 bales of spots daily. All secending this date last year, 390,733 were equally as bullish as the Texas time in 1919; and for the twenty accounts and in the eastern belt it days of October it has been 1,474,289 was said that cotton mills were against 1,357,754 last year, 971,703 mass bine out into the territory surveyear before last and 1,099,697 same men and railroads, were buying up cotton and shipping it to their warehouses on their own motor trucks.

Further reports of a large business being done in cotton goods intensified the effect of spot news. The census bureau will issue its report on ginning to October 18, and the figures may have an important bearing on the net results of the week.

Cotton Crop Movement.

pared with the seven days ending this date last year, in round figures, of 76,000, an increase over the same time year before last of 11,000, and an increase over the same time in 1919 of 114,000.

For the eighty-one days of the season that have elapsed the aggrebeen 172,535 against 267,859 last year gate is ahead of the eight-one days making the total thus far for the of last year 257,000, ahead of the season 1,039,197 against 1,469,925 last same time year before last 1,313,000 year, an increase of 430,728.

ending this date last year, 390,733 year before last and 427,792 same

The movement since August 1 shows receipts at all United States ports 1,796,005, against 1,885,268 last year, 1,193,499 year before last and 1,065,629 same time in 1919; overland across the Mississippi Ohio and Potomac rivers to Northern mills and Canada 170,326 against 378,163 last year, 138,133 year before last and 202,510 same time in 1919; stocks in excess of those held at the close of the commercial year 639,-665 against 117,882 last year, 240,264 New Orleans.—Secretary Hester's time in 1919; Southern min taking weekly New Orleans Cotton Ex- net, 809,000 against 776,571 last year, weekly New Orleans Cotton Ex- net, 809,000 against 776,571 last year, weekly New Orleans Cotton Ex- net, 809,000 against 776,571 last year, weekly New Orleans Cotton Ex- net, 809,000 against 776,571 last year, weekly New Orleans Cotton Ex- net, 809,000 against 776,571 last year, weekly New Orleans Cotton Ex- net, 809,000 against 776,571 last year, weekly New Orleans Cotton Ex- net, 809,000 against 776,571 last year, weekly New Orleans Cotton Ex- net, 809,000 against 776,571 last year, weekly New Orleans Cotton Ex- net, 809,000 against 776,571 last year, weekly New Orleans Cotton Ex- net, 809,000 against 776,571 last year, weekly New Orleans Cotton Ex- net, 809,000 against 776,571 last year, weekly New Orleans Cotton Ex- net, 809,000 against 776,571 last year, weekly New Orleans Cotton Ex- net, 809,000 against 776,571 last year, weekly New Orleans Cotton Ex- net, 809,000 against 776,571 last year, weekly New Orleans Cotton Ex- net, 809,000 against 776,571 last year, weekly New Orleans Cotton Ex- net, 809,000 against 776,571 last year, we were the second of the second o year before last and 183,836 same same time in 1919.

Northern mill takings and Canada during the past seven days show decrease of 17,225 as compared with the corresponding period last year, and their total fakings since August have decreased 175,467. The total For the twenty days of October takings of American mills, North the totals show an increase over last and South and Canada, thus far for year of 117,000, an increase over the season have been 1,233,421 year before last of 503,000 and an against 1,378(796 last year. These increase over same time in 1919 fo include 345,947 by Northern spinners against 521,414.

Foreign exports for the week have



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Cotton Goods

New York.-The cotton goods markets continued strong and active quick delivery goods must be seduring the week. Higher prices cured from second hands. This has were noted on almost all lines, due to the stronger position of the mills after many of them are well sold up and to the continued demand for goods. Throughout the whole list, there are still many goods that are priced lower than the cost of re-placement at this time and there is constant tendency to secure higher prices for goods in this class.

Prices of wide sheetings are very firm in all quarters of the market and pillow tubing and other similar goods are also being firmly held. On blankets and domestics, wanted for prompt shipment are being marked up. Brown sheetings and bleached goods are both higher and there is the same tendency noted prints and percales. With the continued demand for goods and the high cotton markets, there seems now a clearer recognition that all lines of cotton goods are practically certain to be higher.

Reports from the larger jobbing houses indicate that business is good in wholesale hands. comparisons indicate that jobbing prices are about as high as they yere last year. There is a steady business, although orders are not particularly large and many houses say that the margin of profit is not

The Fall River print cloth market was steady and active during the week and many large orders were handled at higher prices. The demand was broad and covered practically all styles of both wide and narrow goods, as well as for twills and sateens. Prices were firm and on many counts there was an advance of a quarter cent.

The cloth markets continued active during the week with prices steadily advancing on drills, sheetings, print cloths and many of the convertibles.

Print cloths sold for delivery into

Sheetings brought 9c for 5-yards,

additional deliveries.

Sateens continue very strong and led to feverish prices on many constructions where production will not catch up for two or three months. Sales of 39-inch 3.50s were made yesterday at 20 1-2c.

Trading in fine goods continues steady, with prices still in favor of the buyer when any spot goods are available.

Tire fabric contracts for delivery during the first six months of next years are reported larger than during the current year. Sakellaridis are not wanted freely. One house has had no call for them for eight months. Egyptian carded yarns are largely in process of manufacture into cloths. Prices are higher; carded peeler is now quoted ic to ic up. Combed Egyptians are now 1 1-2c advanced and carded Egyptians are 1-2c to 2c advanced.

Mill production of cotton duck is reported booked up to February. One large mill has withdrawn its prices and is now figuring on its orders already booked. Imminent price advances are spoken of and have materialized in forward busi-Spot wide drills have brought 42 cents.

Prices were quoted as follows: Brownu sheetings, 3-yard..... 13 Brown sheetings, 4-yard...... 11½ Brown sheetings, So. Stnd..... 14

 Staple ginghams
 14½

 Dress ginghams
 18a20½

 Standard prints
 10½

 Kid finished cambries
 9½a10½

Hosiery in Birmingham, England.

Consul Hurd, Birmingham, reports that there continues to be a steady demand for hosiery next year on a basis of 8 3-8c for Birmingham district despite the 60x48s, 10 3-4c for 68x72s, 13 1-2c widespread business depression. The for 4-yard 80s and 7 1-4c for 27-in. most popular material for men's half hose is cashmere, though plain wool is used to a large extent. Cheap cot-3-4c for 4.25s, 10 1-2c bid and de- ton socks find a considerable marclined for 4-yard 37-inch goods, ket among the poorer classes, as do 7 3-8c bid for 6.15s, with many also cotton and silk mixtures. The houses asking from 1-8c to 1-4c high-demand for sport hosiery is fairly er for additional quantities.

Divide a considerable market and the consid or for additional quantities.

Drills are in a strong position; in and wool and wool socks, used in fact, better than for more than two tennis and cricket, and knee-length years. Sales of 30-inch 3.25s were hose used by golfers, cyclists, footmade at 11 3-8c, with mills now ask-ball players, etc. Artificial silk hosing 12c; 30-inch 3-yards at 12 3-4c, siery is by far the most popular with mills now asking 13c, and 37-in. among women, and several local re-3.95s in a large way at 11 1-2c. tailers report that their sales of this Some mills now want 11 3-4c for kind of hose exceeded the combined additional deliveries. sales of all other sorts.

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The Yarn Market

Philadelphia, Pa.—The yarn markets, as a whole continued active during the week. There has been considerable improvement in the demand for knitting yarns and some lareg orders were placed during the latter part of the week. The buying of wasying yarns has quited some of weaving yarns has quited some what, although these yarns are still moving well. Mills on fine combed yarns are selling to the end of the year, although combed yarns have been shown as much improvement as carded yarns. There is still evidence of considerable stocks of combed yarns and these stocks are making it hard for sellers to secure higher prices. Prices on combed orders sold through the year show but little change from present quo-tations, although some sellers have

gotton an advance of one cent beyond the first of the year.

The market for knitting yarns has again advanced since the general market improvement began. During the last few days of the week, a number of orders for 50,000 to 200,-000 pounds were reported, with prices advanced from 1 to 2 cents a pound.

Southern 2-ply chain warps continue their advance. Advances range from 1-2c to for 26s to 7c in 40s: 50s remain nominal in price. A number of mills are quoting as high as 44c for 20s and 54c for 30s. A num-ber of house have noted a falling off in inquiry during the last day of two. A few mills that six weeks ago reported a sold-up condition up to the close of the year are reported ready to accept additional business now. They are prepared for a slight increase of contract orders immediately, but further ahead are open for larger commitments. Their prices are firm on a basis of today's

The duck yarn situation is tight for the time being. The spot marke is said to be well cleaned up. Prices quoted are up 1-2c in 8s and 10s and 2c in 16s and 20s. Mills making these yarns are largely turning them into finished ducks whose scarcity is indicated by the stronger position of single fillings, ordinarily the weakest item in the division.

Prices were quoted as follows: Southern Two-Ply Chain Warps, Etc.

108	38	@	
12s to 14s	39	0-	
2-ply 16s	43	0	
2-ply 20s	49	@43	
2-ply 24s		0	
0 -1 0/1			
		@	
		@51	
2-ply 40s		@68	
2-ply 50s	78	@	
Southern Two-Ply Ske	eins.		
5s to 10s	37	@	
10s to 12s	38	0	
148		0	
168		6	
248		@42	
90-		0-	
368	59		
		0	
40s extra		@	
The state of the s		0	
508		@76	
608	88	0-	
Carpet—			
2, 3 and 4-ply		0	
5-ply	35	@	
Tinged Insulating Ya	rns.		
68, 1-ply	34	@	
8s, 2, 3 and4-ply	35	0	
10s, 1-ply and 2-ply	351	40	
20s, 2-ply		6	
26s, 2-ply		6	
30s, 2-ply		649	
The second and a second as a s	08 ann	20.00	

		1		Duck Yarns.				
	3,	4	and	5-ply— 36	14 60 27			
	88	-	-	36	1/2@37			
	10s 16s	-		87 42	(0)			
	10S 20S	1		42	@43			
		1	South	hern Single Chain Warr)8.			
	68	te	10s.	36	@ ½@			
	128			37	120			
	148	-		38	Q			
	16s	16		40	0			
	20s 22s	18		42				
	248	100		46	0			
	268	10		47	@48			
	30s	ø		49	@50			
	408	-		60	062			
	0.			outhern Single Skeins.				
	68 10s	to	0 88_	36	0			
	108	1		90	140			
	148	ø			E			
	168			4(0			
	20s 22s			4)	0			
	228	100		45	2 @			
	248	130		4	3 - @44			
	26s	18		45				
	30s	100	0	outhern Frame Cones.	8 @			
	88		3	3(61/2 @			
Í	10s	1		3	7 @			
ø	128			3'	71/20			
	148	100			8 @			
	168			31				
Í	188 20s			3	91/20			
ø	20s 22s			4				
	248			4	2 @			
ģ	26s			4	3 @44			
É	30s	100		4	6 @			
ļ	308	d	louble	carded4	8 @			
	30s	t	ying	In4	31/20			
	9	So	uther	rn Combed Peeler Skeins	s, Etc.			
	2-p 2-p	13	30s 36s	7	0 @			
	2-p	ly	40s	7	21/200			
	2-D	ly	508	8	5 @90			
	2-10	ly	608	1	00@			
2	2-10	ly	708	1	10@1 15			
Š	2-p	ıy	80s	Combad Pagler Cones	25@1 30			
	10s			Combed Peeler Cones.	940			
	128				0 0			
3	14s	1		5	101/2 @			
	168				1 0			
3	188			5	2 @			
	20s	67			3 @			
7	22s 24s				i4 @ i5 @			
8	260				6 @			
)	288		-	5	8 @			
1	30s			6	12 @			
	328			6	64 @			
S	348	3			66 @			
1	368	3			88 @			
S	408				72 @ 35 @			
	0.00				1 00@			
9		50	stern		Twist			
	Skeins.							
S	208		2-ply	f	18 @			
	228	5.	2-ply		19 @			
ģ	940	-	2-nlv		50 @ 56 @			
t	308	8.	2-ply 2-ply	*	66 @			
t			2-ply		66 @			
	458	8,	2-ply		70 @			
80 7			2-ply		78 @			
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000		18	Roliv	vian Silk Goods Ma	rket			
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Bolivian Silk Goods Market.

Consul McDonough, La Paz, reports that with the improvement in Bolivian currency the market for silk goods has also improved. The share of the United States in the silk goods trade, while not large, has increased greatly since 1914. Ma-terials made from silk in demand are sewing thread, taffetas, crepe de chines, satins, foulards and bro-cades. The greater part of the silk goods imported, however, are mixed silk and cotton

Easy Money in Georgia.

Macon, Ga. — Mills B. Lane, president of the Citizens and Southern Bank and a director of the Bibb Bank and a director of the Bibb Manufacturing Company feels that the present period of easy money is unprecedented in Georgia. Banks in Georgia, he states, are lending money in New York. At the Savannah office alone, says Mr. Lane, the bank recently lent \$3,000,000 on call in New York.

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Wanted: Draper Loom fixers Good pay, good running work. good town. Apply E. C. Turner, care Royal Mills, Charleston, S. C.

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Position as master mechanic or chief electrician, night or day Am competent machinist and electrician, also oxyacetylene welder. Address "Mechanic" care Southern Textile Bulletin.

Wanted.

First-class Instructor who also works in the mill. References required. Address, E. G. Carson, North Charlotte, N.

Superintendent for mill about 12,000 spindles and 500 looms on coarse colored cotton Applicant must furnish references and where now employed. Other qualifications necessary to operate a mill of this kind under present conditions must be unquestioned. "Superin-tendent," care Southern Textile

Cotton Mill Accountant.

Wanted: Thoroughly experienced Cotton Mill Accountant Auditor for Southern mill. Give full reference and experience in application. Address Auditor. care of Southern Textile Buile-

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1—24-in. Waste Machine.
1—Complete Atherton-Kitson picker, opener, intermediate, and finisher connected for one continuous process. Finisher has 3-blade

carding beater. 40-in. Dobson & Barlow Cards, also various parts of another card

being used for supplies.
Saco-Pettee Drawing Frames, metallic rolls, five heads.

-Cotton Bale Scales. -64 Spindle Slubber-12x6-Providence Machine Company. 1-56 Spindle Slubber (Providence Machine Company. This machine incomplete.

1—144 Spindle, Fine Frame,—7½x3½—Woonsocket Machine Co. 1—36 Spindle Brownell Twister for very coarse work. 6—98 Spindle Spinning Frame—2½-in, ring, 3-in, gauge—Lowell

Machine Company.

Also Roving Cans, top rolls, bobbins, etc., for this equipment.

2—T. C. Entwistle Beamers—54-in. width.

1—60-in. Delivery head end of slasher—Suitable for use as Warp Compressor.

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The fee for joining our employment bureau tor three months is \$2.00 which will also cover the cost of carrying a small advertisement for one month.

If the applicant is a subscriber to the Southern Textile Builetin and his subscription is paid up to the date of his joining the employment bureau the above fee is only \$1.00.

During the three months' membership we send the applicant notices of all vacancies in the position which he desires. We do not guarantee to place every man who joins our employment bureau but we do give them the best service of any employment bureau connected with the Southern Textile Industry.

- WANT position as general manager, su-perintendent or assistant superintend-ent. High class man of long experience, and thoroughly understand all phases of cotton manufacturing. Excellent refer-ences. Address No. 3606.
- WANT position as superintendent, over-seer of carding or spinning. Excellent references to show ability and character. Address No. 3607.
- WANT position as overseer carding and spinning. Many years' experience and am thoroughly competent to handle either process. References. Address No. 3608.
- WANT position as master mechanic. Un-derstand both steam and electric plant and can handle large or small mill. Ad-dress No. 3609.
- WANT position as superintendent or card-er and spinner. Now employed, but wish larger place. Good references. Ad-dress No. 3610.
- WANT position as overseer of weaving. Age 38, good habits "2003 worker. Good references, " ", experience and qualifications. Address No. 3611.
- WANT position as overseer weaving, Good weaver of long experience. Can handle wide variety of fabrics. Address No. 3612.
- WANT position as overseer large cloth room. Thirteen years' experience on all kinds of white goods. Age 32, married, 13 years as overseer. Best of references, Address No. 3613.
- WANT position as overseer carding. Have had 24 years' experience, textile educa-tion, 3 years on tire duck. Best of ref-erences. Address No. 2614.
- WANT position as overseer carding or spinning. Excellent worker, long expe-rience, good references. Address No. 3615.
- WANT position as overseer carding or spinning, or superintendent of good yarm mill. Good references to show past rec-ord and experience. Address No. 3616.
- WANT position as overseer spinning North Carolina preferred. Am thorough-ly experienced in spinning and have handled rooms in some of the best mills in North Carolina. Fine references. Ad-dress No. 3617.
- WANT position as overseer of weaving. Competent, experienced man who can get real results. Cood references. Ad-dress No. 3618.
- WANT position as master mechanic Lons experience in both steam and electric plants. Now employed. Good refer-ences. Address No. 3619.
- WANT position as superintendent of medium sized mill on white work, or carder and spinner in larger mill. Excellent references to show character and ability. Address No. 1920.
- WANT position as assistant to superintendent, agent or president. Long experience as mill man, stenographer, general office man. Textile college and I. C. S. courses. References. Address No. 3621.
- WANT position as superintendent or spinner; 18 years an overseer and super-intendent. Present job for two years. Have run some of the best jobs in the South. Wish change of locality, Pied-mont section preferred. Address No. 3622.
- WANT position as superintendent or overseer of weaving, white or colored, plain or fancy work. Have handled some of the best jobs in the Carolinas and can get results. Best of references. Address No. 3623.
- WANT position as master mechanic. Con petent man of long experience in m and machine work. Address No. 3624.
- WANT position as superintendent or traveling salesman. Now employed, but

- have good reasons for wishing to change. Fine references. Address No. 3622
- ANT position as overseer weaving in medium size mill or second hand in large mill making sheetings, prints, pajama checks. Experienced on both plain and Draper looms. Can come on short notice. References show I can deliver the goods. Address No. 3628
- WANT position as assistant superintend-ent of large weaving mill, or superin-tendent of yarn mill; wou'd consider place as overseer spinning. Age 38, with long experience on all kinds of cotton goods and yarns. Good references. Ad-dress No. 3627.
- WANT position as overseer carding, weaving or spinning. Am textile graduate of I. C. S. and have had two years in one of the best mills in the South. Young, ambitious and a hustler. Address No. 3628.
- WANT position as superintendent of yarn mill, or overseer carding. Prac-tical man of long experience and train-ing and can get excellent results. Ad-dress No. 3629.
- WANT position as overseer carding, or spinning, or both. Now employed, but wish larger place. References to show character and ability and past record. Address No. 3630.
- WANT position as superintendent or over-seer weaving. Have had long experi-ence on both positions and have an ex-cellent record in some of the best mills in the South. Can come on short notice. Good references. Address No. 3631.
- WANT position as overseer weaving. Experienced on both plain and fancy goods, can get quantity production of excellent quality. Satisfactory references to show ability, training and character. Address No. 3632.
- WANT position as superintendent. Am thoroughly trained man, of good executive ability and am capable of getting good results. Wish to correspond with mill needing high class man. Address No. 3633.
- WANT position as overseer carding. Good carder, good manager of help and have had necessary experience to enable me to handle large room on efficient basis Excellent references. Address No. 3634.
- WANT position as overseer spinning. Thoroughly faimliar with all classes of goods and can furnish best of references. Address No. 3635.
- WANT position as overseer weaving, o would take second hand's place in larg room. Fami'iar with all details of weaving room, experienced on wide variet of fabrics. Best of reference. Addres No. 3636.
- WANT position as overseer carding, or second hand in large room. Can give excellent references as to character and ability. Address No. 3638.
- WANT position as overseer carding or spinning, or both. Married man, settled, three workers in family. Now employed, but am capable of handling a larger job. Good references. Address No. 3639.
- WANT position as overseer weaving, miliar with wide variety of fabrics, manager of help, excellent past re Address No. 3640.
- WANT position as superintendent, assistant superintendent, or designer. Over 25 years' experience in this line, can make practically any class goods made on a loom. Would be glad to correspond with mill needing expert superintendent. Excellent referances. Address No. 3641. ent. 3641.
- WANT position as superintendent yarn mill or overseer carding in large mill. Good carder, exiellent manager of help, long practical experience and good record as successful superintendent and overseer. Address No. 3642.
- VANT position as superintendent, or carder. Now employed as overseer and giving satisfaction, but want larger mill. Long years of experience as both over-seer and superintendent. Excellent ref-erences. Address No. 3643.
- WANT position as superintendent. His class mill man who wants connection with mill that appreciates quality are quanity production and all aroun ability to keep plant running smoothly Best of references. Address No. 3644.
- WANT position as overseer carding. En-ergetic, well trained mill man who thor-oughly understands all phases of effici-ent carding. Address No. 3645.
- WANT position as overseer carding. Set-tled man of good habits, well trained and of long practical experience. First class references. Address No. 3646.
- WANT position as superintendent, or would consider well paying place as

- carder or spinner. Experienced super-intendent who has handled some of the best jobs in the South. A-1 references. Address No. 3647.
- WANT position as superintendent in mill requiring services of thoroughly competent man, on yarn or cloth. Married, temperate, hard worker and economical, can secure results. Over 10 years as superintendent of best mills. Best of references. Address No. 3648.
- WANT position as superintendent, overseer large weave room. Long perience in both positions. Effici practical and can get fine results. I of references. Address No. 3649.
- WANT position as carder, spinner or both, or superintendent of 30,000 spindles. Now running 56,000-spindle spinning room. On present job for three years, and am giving satisfaction, but have excellent reason for wanting to change. References. Address No. 3651.
- WANT position as carder, or would take second hand in large room. Good man who thoroughly understands card room in every particular. Address No. 3652.
- WANT position as superintendent of me-dium sized mill, weave plant preferred, or assistant superintendent in large mill Competent to handle either place. Good references. Address No. 3653.
- WANT position as carder and spinner, or both. Long præctical experience, good manager of help, excellent references. Address No. 3654.
- WANT position as superintendent, carder or spinning. Now employed in first class mill, but want larger job. Excelent references. Address No. 3655.
- WANT position as overseer spinning on medium numbers hosiery yarns. Can give first class references from present and past employers. Address No. 3656.
- WANT position as master mechanic or electrician. Long experience in large mill shops, can handle either steam or electric plant. Good references. Ad-dress No. 3657.
- WANT position as superintendent of me-dium size mill, or as assistant superin-tendent or weaver in large mill, either plain or fancy work. Good references as to character and ability. Address No. 3658.
- WANT position as superintendent or overseer weaving. Experienced on plain and fancy goods, know how to get qual-ity production at low cost. Good refer-ences. Address No. 3659.
- WANT position as assistant superintendent or overseer weaving. Now employed as weaver in room having 784 looms, with dobby heads on 448 of them. Age 35, long experience as loom fixer, second hand and essistant superintendent. Familiar with plain and drill goods, pajama checks, shirting, skirting, sateen, gabardine, marquisetts and other goods woven on plain and dobby looms. L. C. S. graduate. Best of references. Address No. 3660.
- WANT position as superintendent or over seer spinning. Good man of long expe-rience who can successfully handle your mill or spinning room. Address No. 3661.
- WANT position as superintendent. Long experience as such in number of large mills in South and can give good references showing ability and character Address No. 3662.
- WANT position as carder or spinner on white work only. Long experience and can get resuts. Address No. 3663.

 WANT position as superintendent, carder or spinner. Have had long experience as both superintendent and overseer and can show excellent record and qualifications. Fine references. Address No. 3664.
- WANT position as overseer weaving. Ex-perienced on wide variety of fabrics and am first class weaver in every respect Good references. Address No. 3665.
- WANT position as carder or spinner, of both. Now giving satisfaction in goomil, but want larger job. Address No.
- WANTED—Clerical position by married man, four years' mill work. Competent for paymaster or buyer of supplies. Thoroughly familiar with general office work. Address 3667.
- WANT position as overseer weaving. Now employed, but wish larger place. Familiar with wide variety of fabrics and can give references to show character and past record. Address No. 3668.
- WANT position as superintendent. Have successfully handled during past six years one of the best mills in the South. Have excellent reasons for making a change. Wish to correspond with mill needing high class man, who is thoroughly competent to take entire charge of mill. Address No. 3669.

- WANT position as card room overseer or master mechanic, or both in small mill. Can furnish excellent references as to character and ability. Address No. 3670.
- WANT position as superintendent. Long experience as superintendent and am capable, practical man who has always gotten results. Good references to show excellent past record. Address No. 3671.
- WANT position as roller coverer. I experience in this work enables make charge of your shop and do work efficiencly. Fine references, dress No. 3672. Long
- WANT position as overseer weaving. Now have night job, but wish day run. Twenty-six years experience as weaver, 11 years as overseer. Can handle help well. Prefer job with Draper looms. Good references. Address No. 3673.

 WANT position as superintendent or would take carding and spinning. Textile college graduate, long practical experience in good mills. Excellent references. Address No. 3674.
- WANT position, any size mill, as overseer carding and spinning. Colored or white work. Several years' experience as overhauler of carding, spinning and weaving. A-1 references. Address No. weaving. 3675.
- WANT position as superintendent or gen-eral manager. Many years' experience in both positions. Am thoroughly qual-ified to handle mill on efficient basis. Best of references. Address No. 3676.
- WANT position as superintendent of small yarn mill or weaving plant, or overseer weaving. Married, age 39. Good refer-ences. Address No. 3677.
- WANT position as overseer cloth room. Have had 15 years' experience as over-seer in South Carolina and can furnish best of references. Can come on short notice. Address No. 3678.
- ANT position as superintendent or overseer spinning. Long experience or both jobs and can show excellent rec-ord. Can come on short notice. Address No. 3679. WANT
- WANT position as superintendent of yarn mill, or would take overseer carding. Have been overseer for long term of years and thoroughly understand my business. Good references. Address
- WANT position as overseer weaving. Experienced on fancy colored goods, sheetings, drills, can handle either Draper or Crompton and Knowles looms. Age 47, have family. Best of references. Have been in weave room 39 years, 18 years as overseer. Address No. 3781.
- WANT position as overseer carding. Hard working, competent man, who has had necessary experience to room on efficient basis. Address No. 3782. References.
- WANT position as overseer weaving. Plain or fancy work, familiar with all Southern made goods. Fine references as to character and ability. Address No. 3683.
- WANT position as overseer weaving, plain goods preferred. Capable, expe-rienced man with excellent record. Good references, Address No. 3684.
- WANT position as superintendent, weaver or spinner. Long practical experience in number of good mis. Now employed, but can change on short notice. Best of references. Address No. 3685.
- WANT position as carder, spinner, or both, can give satisfactory references showing Dependable man of settled habits who ability to handle job. Address No. 3686.
- WANT position as carder or spinner, or both. Age 48, married, 20 years' experience as carder and spinner on both white and co'ored work. Now employed as carder. Good manager of help and have fine references. Address No. 3687.
- ANT position as superintendent. Practical mill man of long experience and can show results on job. Good hab-its and hard worker. Best of references. Address No. 3688.
- WANT position as overseer carding, or second hand in large room. I. C. S. graduate, good character and man of settled habits. Steady and experienced worker. Address No. 3689.
- WANT position as superintendent or carder and spinner. Am thorough and practical man and can handle anything in the mill. Have handled some of best mils in South. Now employed, but want better equipped plant. Address No. 3690.
- WANT position as overseer spinning with medium sized mill making hosiery yarn. Can furnish best of references. Address No. 3691.

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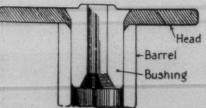
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